



**AARTI  
INDUSTRIES  
LIMITED**

28<sup>th</sup> May 2024

AIL/JH/2024/ENV/050

To,

Deputy Director General of Forests (C)  
Ministry of Environment Forest and Climate Change,  
Integrated Regional Office - Gandhinagar,  
A Wing - 407 & 409, Aranya Bhawan,  
Near CH-3 Circle, Sector - 10A, Gandhinagar - 382010

**Subject : Half-yearly compliance report to the conditions of Environment Clearance for the period of October 2023 to March 2024.**

**Reference : SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022**

Respected Sir,

With reference to the above mentioned subject, the unit is enclosing herewith the Environmental Clearance compliance report for the period of **October 2023 to March 2024** for the above mentioned reference of Environment Clearance obtained for the "Production of Synthetic Organic Chemicals" at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC Notified Industrial Estate Jhagadia, District: Bharuch, Gujarat.

The compliance report is supported with required documents.

Thanking you,

Yours faithfully,

For, Aarti Industries Limited (Unit-II)

Authorized Signatory



**Encl : EC Compliance Report along with Annexures**

**Copy to:**

1. **Email to:** The Regional Director, CPCB, Vadodara, Gujarat
2. **Email to:** SEIAA, Gujarat
3. The Member Secretary, Gujarat Pollution Control Board, Gandhinagar
4. **Uploaded in Parivesh, MoEF&CC Portal**

[www.aarti-industries.com](http://www.aarti-industries.com) | CIN: L24110GJ1984PLC007301

**Regd. Office :** Plot No. 801, 801/23, Illrd Phase, GIDC Vapi-396195, Dist- Valsad. INDIA. T : 0260-2400366.

**Factory :** Plot No. - 756/4-5-6-7 & 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).

Phone No. : 9537011611, 9537011711, 9537011811

**Admin. Office :** 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

T : 022-67976666, F : 022-2565 3234 | E : [info@aarti-industries.com](mailto:info@aarti-industries.com)

EC No.: SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022

# Half-Yearly Environmental Clearance Compliance Report

October 2023 to March 2024



## **Aarti Industries Limited (Unit-II)**

Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6,756/7,  
756/8+9, 778 & 779

GIDC Industrial Estate, Jhagadia 393110

Dist: Bharuch, Gujarat

**Environment Compliance Report of**  
**EC File No. SEIAA/GUJ/EC/5(f)/1470/2022**  
**Dated 30/05/2022**

**EC Compliance Report for period October 23 to March 24**  
**File No: SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue:- 30/05/2022**

Sr. No.	Name of the Product	CAS No.	Capacity in MT/Annum			Compliance																
			Unit-II (Existing)	Unit-III (Existing)	After amendment & transfer on Unit II	Production																
<b>UNIT-II PRODUCT LIST</b>																						
1	Hydrogen Gas	1333-74-0	3000 Nm <sup>3</sup> /Hr	0	3000 Nm <sup>3</sup> /Hr	<p><b>Complied.</b> Production quantity is under permitted capacity.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Production (Nm<sup>3</sup>/Hr)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>894.969</td> </tr> <tr> <td>Nov'23</td> <td>1344.465</td> </tr> <tr> <td>Dec'23</td> <td>1139.598</td> </tr> <tr> <td>Jan'24</td> <td>1439.826</td> </tr> <tr> <td>Feb'24</td> <td>0.000</td> </tr> <tr> <td>Mar'24</td> <td>876.422</td> </tr> </tbody> </table>	Month	Production (Nm <sup>3</sup> /Hr)	Oct'23	894.969	Nov'23	1344.465	Dec'23	1139.598	Jan'24	1439.826	Feb'24	0.000	Mar'24	876.422		
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Mar'24	876.422																					
2	Purification of O/P/M Phenylene Di Amine	-	18000	0	18000	<p><b>Complied.</b> Production quantity is under permitted capacity.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.000</td> </tr> <tr> <td>Nov'23</td> <td>0.000</td> </tr> <tr> <td>Dec'23</td> <td>0.000</td> </tr> <tr> <td>Jan'24</td> <td>42.800</td> </tr> <tr> <td>Feb'24</td> <td>46.250</td> </tr> <tr> <td>Mar'24</td> <td>10.150</td> </tr> <tr> <td><b>Total</b></td> <td><b>99.200</b></td> </tr> </tbody> </table>	Month	Production, MT	Oct'23	0.000	Nov'23	0.000	Dec'23	0.000	Jan'24	42.800	Feb'24	46.250	Mar'24	10.150	<b>Total</b>	<b>99.200</b>
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<b>Total</b>	<b>99.200</b>																					
3	Calcium Chloride (Solid)	10043-52-4	120000	0	120000	<p><b>Complied.</b> Production quantity is under permitted capacity.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>2599.500</td> </tr> <tr> <td>Nov'23</td> <td>2468.500</td> </tr> <tr> <td>Dec'23</td> <td>2457.000</td> </tr> <tr> <td>Jan'24</td> <td>2084.000</td> </tr> </tbody> </table>	Month	Production, MT	Oct'23	2599.500	Nov'23	2468.500	Dec'23	2457.000	Jan'24	2084.000						
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							<b>Feb'24</b>	2119.000																
							<b>Mar'24</b>	2851.000																
							<b>Total</b>	<b>14579.000</b>																
<b>I. A Group IA-Chlorination Products and Its Derivatives: 90000 MT/Annum</b>																								
1	Mono Chloro Benzene (MCB) Either/OR	108-90-7	90000	0	90000		<b>Complied.</b> Production quantity is under permitted capacity. <table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>3740.925</td> </tr> <tr> <td>Nov'23</td> <td>3678.314</td> </tr> <tr> <td>Dec'23</td> <td>3841.025</td> </tr> <tr> <td>Jan'24</td> <td>3127.339</td> </tr> <tr> <td>Feb'24</td> <td>3541.034</td> </tr> <tr> <td>Mar'24</td> <td>4695.431</td> </tr> <tr> <td><b>Total</b></td> <td><b>22624.068</b></td> </tr> </tbody> </table>		Month	Production, MT	Oct'23	3740.925	Nov'23	3678.314	Dec'23	3841.025	Jan'24	3127.339	Feb'24	3541.034	Mar'24	4695.431	<b>Total</b>	<b>22624.068</b>
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Mar'24	4695.431																							
<b>Total</b>	<b>22624.068</b>																							
2	Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) Either/OR	95-50-1 /106-46 /7/541-73-1																						
3	123/124 Tri Chloro Benzene (TCB) Either/OR	87-61-6/ 120-82-1																						
4	Ortho chloro toluene (OCT)/ Para chloro toluene (PCT) Either/OR	95-49-8 / 106-43-4																						
5	2- Chloro 4-Nitro Toluene Either/OR	121-86-8																						
6	6-Chloro 2 -Nitro toluene / 4-Chloro 2-Nitro Toluene Either/OR	83-42-1/ 89-59-8																						
7	Crude of All above Group I. A (Sr. No.1-6 Chlorination products)	--																						
<b>I. B Group IB-Chlorination Products and Its Derivatives: 7200 MT/Annum</b>																								
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR	634-93-5	7200	0	7200		<b>Complied.</b> Production quantity is under permitted capacity. <table border="1"> <thead> <tr> <th>Month</th> <th>Production (MT/Month)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>9.900</td> </tr> <tr> <td>Nov'23</td> <td>31.439</td> </tr> <tr> <td>Dec'23</td> <td>26.900</td> </tr> <tr> <td>Jan'24</td> <td>21.500</td> </tr> <tr> <td>Feb'24</td> <td>11.850</td> </tr> <tr> <td>Mar'24</td> <td>29.100</td> </tr> <tr> <td><b>Total</b></td> <td><b>130.689</b></td> </tr> </tbody> </table>		Month	Production (MT/Month)	Oct'23	9.900	Nov'23	31.439	Dec'23	26.900	Jan'24	21.500	Feb'24	11.850	Mar'24	29.100	<b>Total</b>	<b>130.689</b>
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Mar'24	29.100																							
<b>Total</b>	<b>130.689</b>																							
2	2,6 Di Chloro Para Nitro Aniline (2,6 DCPNA) Either/OR	99-30-9																						
3	2,4 Di Chloro Ortho Nitro Aniline (2,4 DCONA) Either/OR	2683-43-4																						
4	2 4 Di Chloro Aniline Either/OR	554-00-7																						
5	Crude of All above Group I. B (Sr. No. 1-4 Chlorination products)	--																						
<b>II. A Group IIA- Hydrogenated Products and Its Derivatives: 60000 MT/Annum</b>																								
1	Ortho Toluidine/ Para Toluidine/ MetaToluidine	95-53-4/ 106-49-0/	60000	0	60000		<b>Complied.</b> Production quantity is under permitted																	

	Either/OR	108-44-1				capacity.																
2	Meta Chloro Aniline / Ortho Chloro Aniline / Para Chloro Aniline Either/OR	108-42-9/ 95-51-2 / 106-47-8																				
3	3,4 Di Chloro Aniline / 2,3 Di Chloro Aniline / 2,5 Di Chloro Aniline Either/OR	95-76-1/ 608-27-5 / 95-82-9																				
4	2,4 Di Chloro Aniline / 2,6 Di Chloro Aniline / 3,5 Di chloro Aniline Either/OR	554-00-7/ 608-31-1/ 626-43-7																				
5	3,4 Di Amino Di Phenyl Ether / 4,4 Di amino Di phenyl Ether Either/OR	2657-87-6/ 101-80-4																				
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR	90-04-0/ 104-94-9/ 536-90-3																				
7	Chloro Fluoro Aniline Either/OR	367-21-5																				
8	Ortho Cumidine / Para Cumidine / Meta Cumidine Either/OR	643-28-7/ 99-88-7/ 5369-16-4																				
9	Toluidines Either/OR	95-53-4																				
10	Aniline Either/OR	62-53-3																				
11	Para Fluoro Aniline / Meta Fluoro Aniline / Ortho Fluoro Aniline Either/OR	371-40-4/ 372-19-0/ 348-54-9																				
12	1, 3 Di Fluoro Aniline/ 2, 4 Di Fluoro Aniline Either/OR	367-25-9																				
13	1,3 Di Fluoro Benzene Either/OR	372-18-9																				
14	4-Fluoro-N- Isopropyl Aniline Either/OR	70441-63-3																				
15	4-Chloro-N- Isopropyl Aniline Either/OR	770-40-1																				
16	2,3,4 Tri Fluoro Aniline Either/OR	3862-73-5																				
17	Crude of All above Group II. A (Sr. No. 1-16 Hydrogenation products)	--																				
<b>II.B</b>	<b>Group IIB- Hydrogenated Products and Its Derivatives: 36000 MT/Annum</b>																					
1	2,4,5 Tri Chloro Aniline Either/OR	636-30-6				<b>Complied.</b> Production quantity is under permitted capacity.																
2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR	108-45-2/ 95-54-5/ 106-50-3	36000	0	36000																	
						<table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>1267.162</td> </tr> <tr> <td>Nov'23</td> <td>1021.319</td> </tr> <tr> <td>Dec'23</td> <td>796.272</td> </tr> <tr> <td>Jan'24</td> <td>728.287</td> </tr> <tr> <td>Feb'24</td> <td>641.533</td> </tr> <tr> <td>Mar'24</td> <td>1146.227</td> </tr> <tr> <td><b>Total</b></td> <td><b>5600.800</b></td> </tr> </tbody> </table>	Month	Production, MT	Oct'23	1267.162	Nov'23	1021.319	Dec'23	796.272	Jan'24	728.287	Feb'24	641.533	Mar'24	1146.227	<b>Total</b>	<b>5600.800</b>
Month	Production, MT																					
Oct'23	1267.162																					
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<b>Total</b>	<b>5600.800</b>																					

3	Para Amino Phenol/ Meta Amino Phenol Either/OR	123-30-8/ 591-27-5				Oct'23	533.027
						Nov'23	621.589
4	Crude of All above Group II. B (Sr. No.1-3 Hydrogenation products)	--				Dec'23	288.494
						Jan'24	462.938
						Feb'24	565.630
						Mar'24	551.798
						<b>Total</b>	<b>3023.476</b>
<b>III</b>	<b>Nitration Products and Its Derivatives: 24000 MT/Annum (except 4NPI-12000 MT/Annum)</b>						
1	3,4 Di Chloro Nitro Benzene/ 2,5 Di Chloro Nitro Benzene/ 2,3 Di Chloro Nitro Benzene Either/OR	99-54-7/ 89-61-2/ 3209-22-1	24000	0	24000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.	
2	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene Either/OR	89-69-0/ 17700-09-3					
3	Crude of All above Group III. (1-2 Nitration products)	--					
4	4-Nitro N-methyl Phthalimide (4NPI) Either/OR	41663-84-7	12000		12000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.	
5	Crude of 4-Nitro N-methyl Phthalimide (4NPI)	--					
<b>IV</b>	<b>Nitro Anisoles Products and Its Derivatives: 14400 MT/Annum</b>						
1	Ortho Nitro Anisole Either/OR	91-23-6	14400	0	14400	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.	
2	Para Nitro Anisole Either/OR	100-17-4					
3	Crude of All above Group IV. (1-2 Nitro Anisol products)	--					
<b>V</b>	<b>De-Nitro Chlorination Products and Its Derivatives :14400 MT/Annum</b>						
1	2,6 Di Chloro fluoro Benzene Either/OR	2268-05-5	14400	0	14400	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.	
2	2,6 Di Chloro Benzo Nitrile Either/OR	1194-65-6					
3	Meta Di chloro Benzene Either/OR	541-73-1					
4	2,4 Di fluoro Chloro Benzene Either/OR	1435-44-5					
5	2,4 Di chloro Fluoro Benzene Either/OR	1435-48-9					
6	1,3 Dichloro 4,6 Difluoro Benzene/ 1,5 Dichloro 2,4 Difluoro Benzene Either/OR	2253-30-7					
7	Crude of All above Group V (Sr. No. 1-6 De Nitro Chlorination products)	--					

VI	DAPBI 2. (4-amino phenyl) - 1H-benzo (d ) imidazol -5- amine	7621-86-5	756	0	756	<b>Complied.</b> Production quantity is under permitted capacity.		
							<b>Month</b>	<b>Production, MT</b>
							<b>Oct'23</b>	4.397
							<b>Nov'23</b>	2.755
							<b>Dec'23</b>	2.715
							<b>Jan'24</b>	4.068
							<b>Feb'24</b>	3.594
							<b>Mar'24</b>	4.860
<b>Total</b>	<b>22.389</b>							
VII	Concentrated Nitric Acid from Dilute Nitric Acid (CNA from DNA)	7697-37-2	108000	0	108000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.		

**UNIT-III PRODUCT LIST**

VIII Nitration : 84000 MT/Annum						
1	2,4,2,3,2,5/3,4 Di Chloro Nitro Benzene Either/Or	611-06-3/ 3209-22-1/ 89-61-2/ 99-54-7	0	84000	84000	<b>Complied.</b> Production quantity is under permitted capacity.
	2	2,3,4/2,3,5 Tri Chloro Nitro Benzene Either/Or				
3	2,4,5/2,3,6 Tri Chloro Nitro Benzene Either/Or	89-69-0/ 27864-13-7	0	84000	84000	Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023 for 2,4/2,3/2,5/3,4 Di Chloro Nitro Benzene. Unit is yet to apply for CC&A Amendment for rest of the products.
IX Chlorination : 24000 MT/Annum						
1	1,2,4 Tri Chloro Benzene Either/Or	120-82-1	0	24000	24000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.
2	1,2,3 Tri Chloro Benzene Either/Or	87-61-6				

3	Para Chloro Toluene (PCT) Either/Or	106-43-4																				
4	Ortho Chloro Toluene (OCT) Either/Or	95-49-8																				
5	2 Chloro 4 Nitro Toluene Either/Or	121-86-8																				
6	6 Chloro 2 Nitro Toluene Either/Or	83-42-1																				
7	4 Chloro 2 Nitro Toluene Either/Or	89-59-8																				
<b>X</b>	<b>Physical Separations: 25200 MT/Annum</b>																					
1	Ortho Di chloro Benzene (only Physical Separation)	95-50-1	0	10800	10800	<p><b>Complied.</b> Production quantity is under permitted capacity.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>742.082</td> </tr> <tr> <td>Nov'23</td> <td>1031.270</td> </tr> <tr> <td>Dec'23</td> <td>174.849</td> </tr> <tr> <td>Jan'24</td> <td>649.511</td> </tr> <tr> <td>Feb'24</td> <td>770.056</td> </tr> <tr> <td>Mar'24</td> <td>974.905</td> </tr> <tr> <td><b>Total</b></td> <td><b>4342.673</b></td> </tr> </tbody> </table> <p>Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.</p>	Month	Production, MT	Oct'23	742.082	Nov'23	1031.270	Dec'23	174.849	Jan'24	649.511	Feb'24	770.056	Mar'24	974.905	<b>Total</b>	<b>4342.673</b>
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2	Para Di chloro Benzene (only Physical Separation)	106-46-7	0	12000	12000	<p><b>Complied.</b> Production quantity is under permitted capacity.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Production, MT</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>327.185</td> </tr> <tr> <td>Nov'23</td> <td>257.406</td> </tr> <tr> <td>Dec'23</td> <td>436.806</td> </tr> <tr> <td>Jan'24</td> <td>371.694</td> </tr> <tr> <td>Feb'24</td> <td>228.041</td> </tr> <tr> <td>Mar'24</td> <td>374.026</td> </tr> <tr> <td><b>Total</b></td> <td><b>1995.158</b></td> </tr> </tbody> </table> <p>Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023.</p>	Month	Production, MT	Oct'23	327.185	Nov'23	257.406	Dec'23	436.806	Jan'24	371.694	Feb'24	228.041	Mar'24	374.026	<b>Total</b>	<b>1995.158</b>
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3	Meta Di chloro Benzene (only Physical Separation)	541-73-1	0	2400	2400	<p><b>Complied.</b> Production quantity is under</p>																



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<b>XI</b>	<b>Inorganic Products: 3000 Nm<sup>3</sup>/Hr</b>																					
1	Hydrogen, Nm <sup>3</sup> /hr	1333-74-0	0	3000	3000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for this product.																
<b>Inorganic Product</b>																						
1	Steam (By product)	-	135.56 KL/Day	00	135.56 KL/Day	<b>Complied.</b> Production quantity is under permitted capacity. <table border="1"> <thead> <tr> <th>Month</th> <th>Steam Production (KL/Day)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>7.862</td> </tr> <tr> <td>Nov'23</td> <td>7.546</td> </tr> <tr> <td>Dec'23</td> <td>8.590</td> </tr> <tr> <td>Jan'24</td> <td>3.405</td> </tr> <tr> <td>Feb'24</td> <td>0.000</td> </tr> <tr> <td>Mar'24</td> <td>4.933</td> </tr> </tbody> </table>	Month	Steam Production (KL/Day)	Oct'23	7.862	Nov'23	7.546	Dec'23	8.590	Jan'24	3.405	Feb'24	0.000	Mar'24	4.933		
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Sr. No.	CONDITIONS	COMPLIANCE
A.	<b>CONDITIONS:</b>	
<b>A.1 SPECIFIC CONDITION:</b>		
1.	Unit shall strictly comply with each and every condition accorded by SEIAA vide letter no. SEIAA/GUJ/EC/5(f)/1161/2021 dated 02-07-2021, SEIAA/GUJ/EC/5(f)/1412/2019 dated 04-11-2019 and SEIAA/GUJ/EC/5(f)/101/2020 dated 05-02-2020 by new management as per details submitted by PP.	<p><b>Noted.</b></p> <p>Unit is complying with every condition accorded by SEIAA in SEIAA vide letter no. SEIAA/GUJ/EC/5(f)/1161/2021 dated 02-07-2021, SEIAA/GUJ/EC/5(f)/1412/2019 dated 04-11-2019 and SEIAA/GUJ/EC/5(f)/101/2020 dated 05-02-2020.</p> <p>Compliance reports of the previous accorded EC are attached as <a href="#">Annexure-1</a>.</p>
2.	Unit shall strictly adhere with notarized undertaking submitted by PP stating that there shall be no change in plant machinery, pollution load and product list after merger of both units.	<p><b>Complied.</b></p> <p>Unit is strictly complying with the notarized undertaking for no change in plant machinery, pollution load and product list after merger of both units.</p>
3.	PP shall develop greenbelt 31,831.14 sqm (14.13%) within the premises + 45,212 sq.m (20.07%) at plot having survey no: 122 GIDC Jhagadia & adjacent boundary side of the premises, (total 77,043.14 sq.m i.e. 34.21 % of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	<p><b>Complied.</b></p> <p>Presently the unit has developed Green Belt of approx. 11778 m<sup>2</sup> within the premises &amp; approx 40428 m<sup>2</sup> is developed at revenue survey plot No. 122 with varieties of indigenous trees. Total 28.61% (52206 m<sup>2</sup>) green belt area has been developed till date.</p> <p>Unit has started developing the remaining green belt inside the premises (approx 3000 m<sup>2</sup>) and also at revenue survey plot No. 123 &amp; 109 (approx 22055 m<sup>2</sup>). After development of the remaining green belt, total green belt area would be 77261 m<sup>2</sup>. i.e 34.30% of the total plot area.</p> <p>Photographs of the existing greenbelt are attached as <a href="#">Annexure-2</a>.</p>
4.	Close loop solvent recovery system with adequate condenser system shall be provided to recover solvent vapors in such a manner that recovery shall be maximum and recovered solvent shall be reused in the process within premises.	<p><b>Complied.</b></p> <p>Close loop solvent recovery system with an adequate condenser system is provided and recovered solvent is being used in the same process within the premises.</p>
5.	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.	<p><b>Complied.</b></p> <p>Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E):</p>

		<p>Fugitive emission. Unit is carrying out quarterly LDAR monitoring.</p> <p>LDAR Monitoring Logsheet along with report for the said period is attached as <a href="#">Annexure-3</a>.</p>
6.	<p>Unit shall install CEMS continuous Emission Monitoring System in line to CPCB directions to all SPCB vide letter no. 8-29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server. which can be assessable by the GPCB/CPCB on real time basis. [For Small/Large/Medium (Red Category) &amp; Whichever (Air emission &amp; Effluent discharge) is applicable.</p>	<p><b>Complied.</b></p> <p>The unit has installed and connected required OCEMS to CPCB &amp; GPCB for continuous monitoring of effluent discharge.</p> <p>Screenshots of the CPCB &amp; GPCB portal are attached as <a href="#">Annexure-4</a>.</p>
7.	<p>The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No 826 (E) dated 16th November, 2009 shall be complied with.</p>	<p><b>Complied.</b></p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&amp;CC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Month-wise results of the various parameters are provided in the <a href="#">Annexure-5</a>.</p> <p>Ambient Air Monitoring Report of Mar '24 is attached as <a href="#">Annexure-6</a> for reference.</p>
8.	<p>National Emission Standards For Organic Chemicals Manufacturing industry issued by the Ministry vide G. S. R 608 (E) dated 21/07/2010 and amended from time to time shall be followed.</p>	<p><b>Complied.</b></p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as <a href="#">Annexure-7</a> for your reference.</p>
9.	<p>Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance &amp; consistency with the same.</p>	<p><b>Complied.</b></p> <p>Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.</p>
10.	<p>All measures shall be taken to avoid soil and groundwater contamination within premises.</p>	<p><b>Complied.</b></p> <p>Following measures have been taken to prevent soil and groundwater contamination:</p> <ul style="list-style-type: none"> <li>• Pucca flooring is provided inside plant, raw material/product storage area</li> <li>• Concrete/ Bituminous roads are provided.</li> <li>• Bunding/dyke to chemical storage areas with</li> </ul>

		<p>collection and transferring facilities.</p> <ul style="list-style-type: none"> <li>• Closed loop transfer system provided for effluent, raw materials, products and other chemicals.</li> <li>• Separate Storm Water and process drains facility</li> <li>• Checklist for leakage monitoring &amp; compliance.</li> <li>• Routine Soil monitoring,</li> <li>• Adequate effluent treatment facility,</li> <li>• Dedicated hazardous waste storage area having pucca flooring,</li> <li>• Acid proof tiling in the spent acid storage area.</li> <li>• Membership obtained from a common waste disposal facility for treatment and disposal of generated hazardous waste.</li> </ul>
11.	Project proponent (PP) shall maintain complete ZLD all the time and there shall be no GIDC Drainage connection within premise and no waste water discharge outside premises by any means.	<p><b>Complied.</b></p> <p>As per the condition no. 17 of A.2, unit has permission to discharge treated effluent into the NCT-JPP pipeline. Accordingly, the unit has obtained CC&amp;A amendment No. AWH-126636 dated 28.06.2023 for discharge of treated effluent after achieving the prescribed norms as mentioned in CC&amp;A.</p>
12.	<b>Safety &amp; Health</b>	
a.	PP shall obtain PESO permission for the storage and handling of hazardous chemicals.	<p><b>Complied.</b></p> <p>Necessary permission has been obtained from PESO.</p> <ul style="list-style-type: none"> <li>• P/WC/GJ/15/2715 (P404037) dated 17/03/2020 which is valid upto 31/12/2025.</li> <li>• P/WB/GJ/15/2862 (P526017) dated 12/10/2022 which is valid upto 31/12/2024.</li> </ul> <p>Both licenses are attached as <a href="#">Annexure-8</a> for reference.</p>
b.	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	<p><b>Complied.</b></p> <p>Unit has provided an Occupational Health center within the site as per the provision under the Gujarat Factories Rule 68-U and the same is being operated under the supervision of a qualified Factory Medical Officer (FMO) and nurses.</p>

		
c.	PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.	<b>Complied.</b> Unit has obtained a valid Factory License (License No. 15402, valid upto 31 <sup>st</sup> December, 2025). Factory License is attached as <a href="#">Annexure-9</a> for reference.
d.	Unit shall adopt functional operations/process automation system including emergency response to eliminate risk associated with the hazardous processes.	<b>Complied.</b> Unit has adopted an operational process automation system like DCS for operation, monitoring and control. Other auxiliary systems are also controlled through PLC & SCADA (wherever required). Additionally, process safety devices like PSVs (Pressure safety valves), safety interlocks, emergency on/off buttons, LEL detectors, automatic sprinkler systems etc are integral part of automation systems for early detection of emergency and eliminating the risk.
e.	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.	<b>Complied.</b> Unit regularly conducts mock drills within the premises. Last Mock drill was conducted on 28.03.2024 and a report of the same was submitted to DISH, Bharuch which is attached as <a href="#">Annexure-10</a> .
f.	PP shall install adequate fire hydrant system with foam trolley within premises and separate storage of water for the same shall be ensured by PP.	<b>Complied.</b> Unit has adequately provided fire hydrant system with dedicated Fire Water Storage of capacity 6070 KL. Details of the Fire Hydrant system are attached as <a href="#">Annexure-11</a> . Unit has also provided fire tender for emergency handling.
g.	PP shall take all the necessary steps for control of storage	<b>Complied.</b>



hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.

All materials are stored as per approved compatibility matrix and are displayed at prominent locations.

PROJECT : TL Plant		CHEMICAL-MATERIAL INTERACTION MATRIX																					
TITLE :	CHEMICAL-MATERIAL INTERACTION MATRIX													Rev									
SHEET NO.	DOCUMENT NUMBER													9									
1 of 1	JH2/ECCM001													9									
Chemical Material Compatibility Chart		SS304	SS316	SS316L	SS317	SS317L	MS	CS Carbon Steel	ALUMINUM	CAST IRON	DI	PP	HDPE	LDPE	HDPE	PTFE	PFA	PC					
S.No.	Chemical Name	Process/Utility	A	B	C	D	X	A	B	C	D	X	A	B	C	D	X	A	B	C	D	X	
1	Raw Water	Utility	A	A	A	A	A	A	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A
2	ONT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
3	PNT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
4	MNT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
5	DT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
6	PT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
7	MT	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
8	Hydrogen	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
9	Nitrogen	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
10	DI Water	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
11	Steam	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
12	Condensate	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
13	Cooling Water	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
14	M.P.C	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
15	Instrument Air	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
16	Breathing Air	Utility	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
17	TL Effluent Water	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
18	TL Scrubber Water	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
19	RT Scrubber Water	Process	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Moreover, dedicated storage facility of flammable chemicals & hazardous chemicals provided at safer distance from production area as per PESO approval.

h. PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or Labor within premises.

**Complied.**  
All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs like Safety shoes, Safety goggles, Helmet, gloves, cartridge mask, ear plug/muff etc. is ensured so that no harm is caused to any worker/employee.

i. Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.

**Complied.**  
Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. The cover page of the same is attached as [Annexure-12](#)

j. PP shall provide double earthing to solvent storage tanks

**Complied.**  
We have provided double earthing to reactors, receivers, and solvent piping. Also proper earthing is provided to all electrical motors/ MCC/ Push button etc. as per Electricity Act 2003.

k.	Unit shall never store drum/tarrels/carboys of incompatible material/chemical together.	<b>Complied.</b> All materials are stored as per approved compatibility matrix. Please refer to point no. 12 (g) of A.1.														
l.	Unit shall provide effective isolation for Process area and storage of hazardous chemicals.	<b>Complied.</b> Dedicated storage facility of flammable chemicals & hazardous chemicals provided at safer distance from production area as per PESO approval.														
<b>A.2</b>	<b>WATER</b>															
13.	Total water consumption for proposed expansion shall not exceed 8250.28 KL/day (Fresh+Recycle). Unit will reuse 2259.28 KL/day of treated industrial effluent within premises. Hence, fresh Water requirement for the proposed expansion shall not exceed 5991 KL/day and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for withdrawal of water.	<p><b>Complied.</b> Unit receives water from the GIDC water supply only. No ground water is extracted. Unit has taken permission from GIDC for water supply which is attached as <a href="#">Annexure-13</a>.</p> <p>Fresh water consumption is well within the permissible limit as per CC&amp;A Amendment No. AWH-126636 dated 28.06.2023. Kindly refer to the attached CC&amp;A as <a href="#">Annexure-14</a>.</p> <table border="1"> <thead> <tr> <th>Month</th> <th>Quantity (KLD)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>1590.06</td> </tr> <tr> <td>Nov'23</td> <td>1336.37</td> </tr> <tr> <td>Dec'23</td> <td>1488.42</td> </tr> <tr> <td>Jan'24</td> <td>1639.23</td> </tr> <tr> <td>Feb'24</td> <td>1538.72</td> </tr> <tr> <td>Mar'24</td> <td>1675.32</td> </tr> </tbody> </table>	Month	Quantity (KLD)	Oct'23	1590.06	Nov'23	1336.37	Dec'23	1488.42	Jan'24	1639.23	Feb'24	1538.72	Mar'24	1675.32
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14.	No ground water shall be tapped for the project requirement.	<b>Complied.</b> No groundwater is being tapped for utilization. The unit is only using water from GIDC.														

15.	<p>The industrial wastewater generation for proposed expansion shall not exceed 2260 KLD.</p>	<p><b>Complied.</b> Wastewater generation is well within the permissible limit as per CC&amp;A Amendment No. AWH-126636 dated 28.06.2023. Kindly refer below table for the wastewater generation details.</p> <table border="1" data-bbox="898 422 1414 716"> <thead> <tr> <th>Month</th> <th>Quantity (KLD)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>162.46</td> </tr> <tr> <td>Nov'23</td> <td>203.55</td> </tr> <tr> <td>Dec'23</td> <td>212.58</td> </tr> <tr> <td>Jan'24</td> <td>169.90</td> </tr> <tr> <td>Feb'24</td> <td>206.32</td> </tr> <tr> <td>Mar'24</td> <td>244.43</td> </tr> </tbody> </table>	Month	Quantity (KLD)	Oct'23	162.46	Nov'23	203.55	Dec'23	212.58	Jan'24	169.90	Feb'24	206.32	Mar'24	244.43																		
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16.	<p>Industrial effluent shall be segregated into two streams (1) High COD and TDS effluent (2) Low COD and TDS effluent and it shall be manages as below:</p> <p><b><u>High COD and TDS effluent 1244 KLD:</u></b> 1073 KLD, High COD and TDS effluent from process, washing, scrubber and reaction and 171 KLD, industrial effluent from M/s. Aarti Industries Ltd. (Unit-III) shall be treated ETP consist of primary treatment units. Out of 1243 KLD treated effluent, 540 KLD shall be discharge in NCT, pipeline and 703 KLD shall be further treated within premises.</p> <p><b><u>Low COD and TDS effluent 1719 KLD:</u></b> 703 KLD, treated effluent, 956 KLD, low COD effluent from utilities and 60 KLD. Industrial effluent from M/s. Aarti industries (Unit-III) shall be treated in RO. 1375 KLD, RO permeate shall be reused within premises and 344 KLD, RO reject shall be treated in MEE. 318 KLD, MEE condensate shall be reused within premises.</p>	<p><b>Complied.</b> Currently, the unit is managing industrial effluent as per condition no. 3.3 (a &amp; b) of CC&amp;A Amendment No. AWH-126636 dated 28.06.2023. The unit has provided primary treatment including neutralization followed by Bio aeration &amp; tertiary treatment. Effluent meeting the discharge norms sent to NCT for discharge into deep sea.</p> <table border="1" data-bbox="878 1142 1515 1514"> <thead> <tr> <th colspan="4">Effluent Disposal (KLD)</th> </tr> <tr> <th>Month</th> <th>Total</th> <th>CME</th> <th>Discharge to NCT-Pipeline</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>193.12</td> <td>45.088</td> <td>148.032</td> </tr> <tr> <td>Nov'23</td> <td>191.64</td> <td>45.308</td> <td>146.333</td> </tr> <tr> <td>Dec'23</td> <td>227.51</td> <td>25.054</td> <td>202.452</td> </tr> <tr> <td>Jan'24</td> <td>182.62</td> <td>13.234</td> <td>169.387</td> </tr> <tr> <td>Feb'24</td> <td>200.04</td> <td>21.664</td> <td>178.374</td> </tr> <tr> <td>Mar'24</td> <td>236.67</td> <td>22.744</td> <td>213.925</td> </tr> </tbody> </table> <p>Presently the unit is having Partial CC&amp;A and installation &amp; commissioning of MEE-ATFD &amp; RO is under progress.</p>	Effluent Disposal (KLD)				Month	Total	CME	Discharge to NCT-Pipeline	Oct'23	193.12	45.088	148.032	Nov'23	191.64	45.308	146.333	Dec'23	227.51	25.054	202.452	Jan'24	182.62	13.234	169.387	Feb'24	200.04	21.664	178.374	Mar'24	236.67	22.744	213.925
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17.	<p>Treated wastewater shall be sent to M/s. NCT, pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human health and environment.</p>	<p><b>Complied.</b> The treated effluent meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.</p>																																

18.	Unit shall provide adequate treatment to industrial effluent in such a way that feed wastewater to inhouse MEE only after ensuring content to effluent for COD/VOC so as not to get the air borne during evaporation in order to achieve no adverse impact on Environment and Human Health.	<p><b>Complied.</b> Currently, the unit is managing industrial effluent as per condition no. 3.3 (a &amp; b) of CC&amp;A Amendment No. AWH-126636 dated 28.06.2023. The unit has provided primary, secondary &amp; tertiary treatment &amp; Ammonia stripping unit for industrial effluent to control COD/VOC so that no airborne emissions is generated during evaporation.</p>														
19.	Domestic wastewater generation shall not exceed 178 KL/Day for proposed project and it shall be treated in STP. It shall not be disposed off through soak pit septic tank. Treated sewage be utilized for gardening and plantation purpose within premises after achieving onland discharge norms prescribed by the GPCB or reused in process & cooling water.	<p><b>Complied.</b> Unit has a proper Sewage treatment facility to treat domestic effluent. Treated wastewater is utilized in gardening/plantation and cooling towers within own premises. Domestic wastewater generation is well within the given limit.</p> <table border="1" data-bbox="878 814 1333 1108"> <thead> <tr> <th>Month</th> <th>Quantity (KLD)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>40</td> </tr> <tr> <td>Nov'23</td> <td>36</td> </tr> <tr> <td>Dec'23</td> <td>32</td> </tr> <tr> <td>Jan'24</td> <td>38</td> </tr> <tr> <td>Feb'24</td> <td>36</td> </tr> <tr> <td>Mar'24</td> <td>41</td> </tr> </tbody> </table>	Month	Quantity (KLD)	Oct'23	40	Nov'23	36	Dec'23	32	Jan'24	38	Feb'24	36	Mar'24	41
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Dec'23	32															
Jan'24	38															
Feb'24	36															
Mar'24	41															
20.	During monsoon season when treated sewage may not be required for the plantation/gardening/greenbelt purpose. It shall be reused within process and cooling tower. There shall be no discharge of waste water outside the premises in any case.	<p><b>Complied.</b> During the rainy season sewage generated from the domestic activities are treated in STP &amp; used in cooling towers as a makeup water.</p>														
21.	The unit shall provide metering facility at the inlet and outlet of the fenton treatment, effluent treatment plant, RO system, MEE plant & STP, and maintain the record of the same.	<p><b>Complied.</b> Flowmeters are provided at inlet and outlet of treatment facilities. Photographs of Flowmeters are attached as <a href="#">Annexure-15</a> for your ready reference.</p>														
22.	Proper Logbook of the ETP, RO, MEE & STP operation, effluent quality and quantity, chemical & power consumption treated effluent reused in process & gardening/plantation, chemical & power consumption etc. shall be maintained and shall be furnished to GPCB from time to time.	<p><b>Complied.</b> Unit is maintaining proper logbooks of ETP, STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity &amp; quality of treated effluent, power consumption. Photographs of logbooks are attached as <a href="#">Annexure-16</a> for your ready reference.</p>														

A.3		AIR																																																																																						
23		Unit shall not exceed fuel consumption for boilers, TFHs, HAGs and oxidizers and D G Set as mentioned below:																																																																																						
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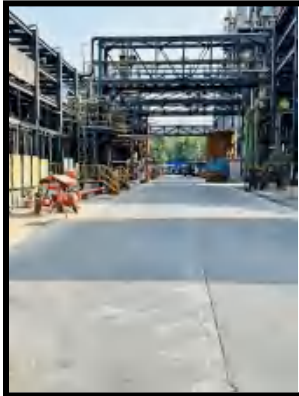

		al Gas)				
9	Thermic Fluid Heater (Thermopak) 40 Lakh Kcal/Hr (2 Nos.)	34 m each	Coal	1.95 MT/Hr for Each		Bag Filter
10	Hot Air Generator (For Calcium Chloride Dryer) - (1 No.)	33	Coal	8 MT/Hr.		Cyclone Separator, Bag filter & Water Scrubber
11	Vent gas oxidizer - 1 No. (Proposed)	30	Natural gas	41 Nm <sup>3</sup> /Hr.		--
12	D.G Set 1500 kVA (2 Nos.)	33	Diesel	660 L/Hr.		Adequate stack height + Acoustic barrier
<p>Note: Steam will be supplied to Aarti industries Limited (Unit-I), Plot No. 758/ 1-2-3 @ 30 TPH &amp; Aarti industries Limited (Unit-III), Plot No. 778 @ 30 TPH. (After amalgamation Unit-III will be part of Unit II) from 150 TPH Boiler proposed in this Aarti Industries Limited Unit-II. Steam condensate will be received back to the AIL Unit-II. The Chilling water/coolant will be supplied to M/s. Aarti industries Limited (Unit-I) @500 TR.</p>						
24.	Unit shall provide adequate APCM with flue gas generation sources as mentioned above.				<b>Complied.</b> Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per standards mentioned in CC&A.	
25.	Unit shall provide adequate APCM with process gas generation sources as mention below:				<b>Complied.</b> Unit has provided adequate APCMs in the existing process gas generation sources & is achieving norms as per standards mentioned in CC&A.  Process gas emissions are well within the limit.	
	<b>Sr. No:</b>	<b>Specific Source of emission (Name of</b>	<b>Type of</b>	<b>Permissible</b>	<b>Stack / Vent</b>	<b>Air Pollution Control</b>

	of the product & process)	emission	Limits	Height (m)	Measures (APCM)
1	Reformer	CO	150 mg/N m3	26	-
2	CaCO3 Reactor	HCl	20 mg/N m3	23	Alkali Scrubber
3	CaCl2 Dryer vent	Particulate Matter	150 mg/N m3	20	Cyclone separators & Wet Scrubber
4	Chlorinator Reactor vent	HCl Chlorine	20 mg/N m3 09 mg/N m3	15	Falling film absorber followed by Alkali Scrubber
5	Nitration Vessels	NOx	25 mg/N m3	15	Acidic Scrubber
6	CLB- Cl2 scrubber	Cl2	09 mg/N m3	15	Single Stage, 10% NaOH
7	CLB - PDCB Scrubbers	VOC	-	15	Single Stage, ODCB
8	CLB - HCL Scrubber-	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
9	CLB - HCL Scrubber	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber
10	TCB - HCL Scrubber	HCl	20 mg/N m3	15	HCl absorber followed by caustic scrubber

Month-wise results of the process gas emission are provided in the [Annexure-19](#).

Analysis report of process gas emission for Mar '24 are attached as [Annexure-18](#).

11	TCB - Cl <sub>2</sub> Scrubber	Cl <sub>2</sub>	09 mg/N m <sup>3</sup>	15	Single Stage, 10% NaOH
12	TCB - ODCB Scrubber	VOC	-	15	Single Stage, ODCB
13	DCPNA - HCL Scrubber	HCL	20 mg/N m <sup>3</sup>	15	HCL absorber followed by caustic scrubber
14	DCPNA - Cl <sub>2</sub> Scrubber	Cl <sub>2</sub>	09 mg/N m <sup>3</sup>	15	Single Stage, 10% NaOH
15	DAPBI Process	HCL	20 mg/N m <sup>3</sup>	15	Water Scrubber followed by Alkali Scrubber
16	DAPBI Process	NH <sub>3</sub>	175 mg/N m <sup>3</sup>	15	Acidic Scrubber
17	ETP Scrubber	NH <sub>3</sub>	175 mg/N m <sup>3</sup>	15	Acidic Scrubber
18	Scrubber connected to Nitration Reactors.	NO <sub>x</sub>	25 mg/N m <sup>3</sup>	11	2-stage Alkali Scrubber
19	Scrubber connected to Chlorination Reactor	HCL	25 mg/N m <sup>3</sup>	11	Water scrubber followed by Alkali Scrubber
20	PSA Absorber	VOC	-	26	Water scrubber
26.	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of industrial Safety & Health) Following	<p><b>Complied.</b></p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as</p>			

	indicative guidelines shall also be followed to reduce the fugitive emission.	<a href="#">Annexure-7</a> for your reference.
	<ul style="list-style-type: none"> <li>➤ internal roads shall be either concentrated or asphalted or paved properly to reduce the fugitive emission during vehicular movement.</li> </ul>	<p><b>Complied.</b> All internal roads are asphalted or paved properly and cleaned on a regular basis. The entire site is either asphalted or paved area or green area.</p> <div style="display: flex; justify-content: space-around;">   </div>
	<ul style="list-style-type: none"> <li>➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.</li> </ul>	<p><b>Complied.</b> Water sprinklers have been provided in the coal and ash handling area to reduce fugitive emission.</p> 
	<ul style="list-style-type: none"> <li>➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</li> </ul>	<p><b>Complied.</b> Green-Belt developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</p>
27.	Regular monitoring of Volatile Organic Compounds (VOCS) shall be carried out in the work zone and ambient air.	<b>Complied.</b>

		The unit is carrying out regular monitoring of Volatile Organic Compounds in the work zone and ambient air Kindly refer <a href="#">Annexure-7</a> & <a href="#">Annexure-5</a> respectively.
28.	For control of fugitive emission, VOCs, following steps shall be followed:	
a.	Closed handling and charging systems shall be provided for chemicals.	<b>Complied.</b> Closed handling and charging systems are provided for chemicals.
b.	Reflux condenser shall be provided over reactors/ vessels.	<b>Complied.</b>
c.	Pumps shall be provided with mechanical seals to prevent leakages	<b>Complied.</b> Mechanical seals pumps are provided in the unit to prevent the leakage.
d.	Air borne dust at all transfers operations/points shall be controlled either by spraying water or providing enclosures.	<b>Complied.</b> No such aspect (air borne dusty operation) is there in our plant. All the processes are being carried out in closed vessels only. The unit is taking adequate measures to control the air borne dust from the plant.
29.	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, HCl, Cl2,CO, NH3 and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	<b>Complied.</b> Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory. All results are well within the prescribed limits. The results of the analysis are provided in the following table.  Month-wise results of the various parameters are provided in the <a href="#">Annexure-5</a> .  Ambient Air Monitoring Report of Mar '24 is attached as <a href="#">Annexure-6</a> for reference.

<b>A.4</b>	<b>SOLID/HAZARDOUS WASTE</b>							
30.	All the hazardous/ solid waste management shall be taken care as mentioned below ;							
S. No.	Type of Hazardous Waste	Source of Generation				Hazardous Waste Category No.	Mode of Disposal	Compliance Status
			Unit-II	Unit-II I	Total After Amendment on Unit II			



1	MEE/ evaporation Salt	ETP Plant	9490	1825	11315	35.3	Collection, Storage, Transportation & disposal to TSDF site/Co-processing	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">ETP Waste</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.000</td> </tr> <tr> <td>Nov'23</td> <td>14.030</td> </tr> <tr> <td>Dec'23</td> <td>27.290</td> </tr> <tr> <td>Jan'24</td> <td>11.480</td> </tr> <tr> <td>Feb'24</td> <td>0.000</td> </tr> <tr> <td>Mar'24</td> <td>26.410</td> </tr> <tr> <td><b>Total</b></td> <td><b>79.210</b></td> </tr> </tbody> </table>	ETP Waste		Month	Quantity (MT)	Oct'23	0.000	Nov'23	14.030	Dec'23	27.290	Jan'24	11.480	Feb'24	0.000	Mar'24	26.410	<b>Total</b>	<b>79.210</b>																	
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ETP Waste	ETP Waste	9807	0	12910	0	0																																					
	ETP Waste from Unit-III	3103	0																																								
	Silica	CaCl <sub>2</sub> Process	19512	0	19512	0	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="4">Silica Sludge</th> </tr> <tr> <th>Month</th> <th>Co-processing</th> <th>Landfilling</th> <th>Total Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>713.09</td> <td>475.370</td> <td>1188.460</td> </tr> <tr> <td>Nov'23</td> <td>593.89</td> <td>1444.170</td> <td>2038.060</td> </tr> <tr> <td>Dec'23</td> <td>406.99</td> <td>466.620</td> <td>873.610</td> </tr> <tr> <td>Jan'24</td> <td>547.61</td> <td>324.260</td> <td>871.870</td> </tr> <tr> <td>Feb'24</td> <td>508.68</td> <td>332.670</td> <td>841.350</td> </tr> <tr> <td>Mar'24</td> <td>70.51</td> <td>256.530</td> <td>327.040</td> </tr> <tr> <td><b>Total</b></td> <td><b>2840.77</b></td> <td><b>3299.62</b></td> <td><b>6140.39</b></td> </tr> </tbody> </table>	Silica Sludge				Month	Co-processing	Landfilling	Total Quantity (MT)	Oct'23	713.09	475.370	1188.460	Nov'23	593.89	1444.170	2038.060	Dec'23	406.99	466.620	873.610	Jan'24	547.61	324.260	871.870	Feb'24	508.68	332.670	841.350	Mar'24	70.51	256.530	327.040	<b>Total</b>	<b>2840.77</b>	<b>3299.62</b>	<b>6140.39</b>
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2	Used oil	Utility	40	6	46	5.1	Collection, Storage, Transportation, & Disposal by selling to registered re-processors.	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1" data-bbox="984 331 1463 722"> <thead> <tr> <th colspan="2">Used Oil</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.000</td> </tr> <tr> <td>Nov'23</td> <td>6.930</td> </tr> <tr> <td>Dec'23</td> <td>0.000</td> </tr> <tr> <td>Jan'24</td> <td>0.000</td> </tr> <tr> <td>Feb'24</td> <td>0.000</td> </tr> <tr> <td>Mar'24</td> <td>0.000</td> </tr> <tr> <td><b>Total</b></td> <td><b>6.930</b></td> </tr> </tbody> </table>	Used Oil		Month	Quantity (MT)	Oct'23	0.000	Nov'23	6.930	Dec'23	0.000	Jan'24	0.000	Feb'24	0.000	Mar'24	0.000	<b>Total</b>	<b>6.930</b>
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3	Empty Barrels & Empty HDPE bags	R.M storage area	200	0	200	33.1	Collection, storage, transportation, decontamination & Disposal to Recycler/TSDF/sending back to raw material supplier/Co-processing.	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1" data-bbox="984 911 1492 1331"> <thead> <tr> <th colspan="2">Empty Barrels &amp; Empty HDPE bags, Discarded Containers /Bags</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>17.910</td> </tr> <tr> <td>Nov'23</td> <td>10.510</td> </tr> <tr> <td>Dec'23</td> <td>14.490</td> </tr> <tr> <td>Jan'24</td> <td>13.690</td> </tr> <tr> <td>Feb'24</td> <td>12.260</td> </tr> <tr> <td>Mar'24</td> <td>10.510</td> </tr> <tr> <td><b>Total</b></td> <td><b>79.370</b></td> </tr> </tbody> </table>	Empty Barrels & Empty HDPE bags, Discarded Containers /Bags		Month	Quantity (MT)	Oct'23	17.910	Nov'23	10.510	Dec'23	14.490	Jan'24	13.690	Feb'24	12.260	Mar'24	10.510	<b>Total</b>	<b>79.370</b>
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	Discarded Containers /Bags	100	240	340		Collection, storage, transportation, decontamination & Disposal to Recycler/TSDF/sending back to raw material supplier.																				

4	Distillation residue & waste	Process	1404	2700	4104	26.1	Collection, storage, transportation & disposal to incineration/Co-processing.	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">Distillation/Process Residue</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>154.540</td> </tr> <tr> <td>Nov'23</td> <td>129.700</td> </tr> <tr> <td>Dec'23</td> <td>163.300</td> </tr> <tr> <td>Jan'24</td> <td>197.580</td> </tr> <tr> <td>Feb'24</td> <td>200.980</td> </tr> <tr> <td>Mar'24</td> <td>321.120</td> </tr> <tr> <td><b>Total</b></td> <td><b>1167.220</b></td> </tr> </tbody> </table>	Distillation/Process Residue		Month	Quantity (MT)	Oct'23	154.540	Nov'23	129.700	Dec'23	163.300	Jan'24	197.580	Feb'24	200.980	Mar'24	321.120	<b>Total</b>	<b>1167.220</b>		
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<b>Total</b>	<b>1167.220</b>																											
5	Process residue	Process	12480	0	12480																							
6	Spent Catalyst	Hydrogenation process	444	54	498	26.5	Collection, storage, transportation & disposal to registered re-generators/ TSDf site & (reuse for U-III)	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">Spent Catalyst</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>3.873</td> </tr> <tr> <td>Nov'23</td> <td>2.778</td> </tr> <tr> <td>Dec'23</td> <td>0.778</td> </tr> <tr> <td>Jan'24</td> <td>0.508</td> </tr> <tr> <td>Feb'24</td> <td>2.181</td> </tr> <tr> <td>Mar'24</td> <td>3.055</td> </tr> <tr> <td><b>Total</b></td> <td><b>13.173</b></td> </tr> </tbody> </table>	Spent Catalyst		Month	Quantity (MT)	Oct'23	3.873	Nov'23	2.778	Dec'23	0.778	Jan'24	0.508	Feb'24	2.181	Mar'24	3.055	<b>Total</b>	<b>13.173</b>		
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7	Hydrochloric acid (HCl)	Scrubber	205620	23276	228896	B15 of Schedule-II	Collection, storage, transportation & reused in manufacturing of CaCl <sub>2</sub> . OR sold to authorized end users having Rule 9 permission or (it will be	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="4">Hydrochloric acid (HCl)</th> </tr> <tr> <th>Month</th> <th>In-house utilization for manufacturing of CaCl<sub>2</sub></th> <th>Dispatched to actual end-user</th> <th>Total Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>6261.708</td> <td>150.640</td> <td>6412.348</td> </tr> <tr> <td>Nov'23</td> <td>5777.880</td> <td>248.410</td> <td>6026.290</td> </tr> <tr> <td>Dec'23</td> <td>5639.245</td> <td>422.860</td> <td>6062.105</td> </tr> </tbody> </table>	Hydrochloric acid (HCl)				Month	In-house utilization for manufacturing of CaCl <sub>2</sub>	Dispatched to actual end-user	Total Quantity (MT)	Oct'23	6261.708	150.640	6412.348	Nov'23	5777.880	248.410	6026.290	Dec'23	5639.245	422.860	6062.105
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8	Spent Sulphuric acid (H <sub>2</sub> SO <sub>4</sub> )	Process	20856	56700	77556	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	<b>Complied.</b> Spent Sulphuric acid waste is not generated & disposed off during the reporting period. Presently the unit is having partial CCA. The unit has applied for CCA Amendment inward no. 276574 dated 15.03.2023																
9	Sodium Hydrochlorite (NaOCl)	Process	45084	0	45084	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	<b>Complied.</b> Sodium Hypochlorite is not being generated.																
10	Sodium Chloride (NaCl)	Process	44160	0	44160	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission/ TSDF site for landfill	<b>Complied.</b> Presently the Unit is having Partial CCA. NaCl is not being generated.																
11	Ortho Nitro Phenol (ONP/ Para Nitro Phenol (PNP)	Process	492	0	492	--	Collection, storage, transportation & sold to authorize	<b>Complied.</b> Presently the Unit is having Partial CCA. Ortho Nitro Phenol (ONP/ Para Nitro Phenol (PNP) is not being generated.																

							d actual end users having Rule 9 permission.																			
12	Nitrosyl Sulphuric Acid (NSA)	Process	17652	0	17652	B15 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	<b>Complied.</b> Presently the Unit is having Partial CCA. Nitrosyl Sulphuric Acid (NSA) is not being generated.																		
13	Calcium Chloride Solution as brine	Process	120000	0	120000	Class C2 of Schedule-II	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.	<b>Complied.</b> Calcium Chloride Solution as brine is not being generated.																		
14	Spent Carbon	Process and ETP	1020	60	1080	36.2	Collection, Storage, transportation, sent for co-processing/incineration	<p><b>Complied.</b> Hazardous waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">Spent Carbon</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>15.060</td> </tr> <tr> <td>Nov'23</td> <td>8.410</td> </tr> <tr> <td>Dec'23</td> <td>6.540</td> </tr> <tr> <td>Jan'24</td> <td>0.000</td> </tr> <tr> <td>Feb'24</td> <td>0.000</td> </tr> <tr> <td>Mar'24</td> <td>7.870</td> </tr> <tr> <td><b>Total</b></td> <td><b>37.880</b></td> </tr> </tbody> </table>	Spent Carbon		Month	Quantity (MT)	Oct'23	15.060	Nov'23	8.410	Dec'23	6.540	Jan'24	0.000	Feb'24	0.000	Mar'24	7.870	<b>Total</b>	<b>37.880</b>
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15	Off-specification product	Process	25	120	145	26.1	Collection, Storage, Transportation disposal	<b>Complied</b> There is no generation and disposal of off-specification products during the reporting period.																		

							to Co-proces sing/ Incinerati on (Disposal at Co-proces sing is not for U-II)	
16	PPE's Waste, non-recyclabl e plastic waste	Operation waste	200	0	200	33.1	Collection , Storage, Transport ation disposal to Land filling	<b>Complied.</b>
17	Contaminate d Cotton Waste, Paper Waste, Contaminate d Woods	Operation Waste	150	4	154	26.1	Collection , Storage, Transport ation disposal to incinerati on	<b>Complied.</b>
18	Stripper TOP containing organic content	Stripper	1095	0	1095	26.1	Collection , Storage, Transport ation disposal to incinerati on/ Co-Proces sing	<b>Complied.</b> Presently the Unit is having Partial CCA. Stripper TOP containing organic content is not being generated.
19	Spent solvent	Process	35	0	35	26.1	Collection , Storage, Transport ation disposal to incinerati on/Co-Pro cessing or Approved Recycler.	<b>Complied.</b> Presently the Unit is having Partial CCA. Spent solvent is not being generated.
20	Scrub Liquid	From NOx Scrubber	0	350 KL/ Year	350 KL/Year	--	Collection , Storage and treated at in-house	<b>Complied.</b> Presently the Unit is having Partial CCA. Scrub Liquid is not being generated.

							ETP.																			
21	Insulation Waste	Maintenance	0	24	24	-	Collection, Storage, Transportation disposal by at TSDf Site	<p><b>Complied.</b> Insulation waste disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">Insulation Waste</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.000</td> </tr> <tr> <td>Nov'23</td> <td>7.290</td> </tr> <tr> <td>Dec'23</td> <td>2.360</td> </tr> <tr> <td>Jan'24</td> <td>1.310</td> </tr> <tr> <td>Feb'24</td> <td>7.170</td> </tr> <tr> <td>Mar'24</td> <td>6.300</td> </tr> <tr> <td><b>Total</b></td> <td><b>24.430</b></td> </tr> </tbody> </table>	Insulation Waste		Month	Quantity (MT)	Oct'23	0.000	Nov'23	7.290	Dec'23	2.360	Jan'24	1.310	Feb'24	7.170	Mar'24	6.300	<b>Total</b>	<b>24.430</b>
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22	Recycle Solvent	Process	212368	0	212368	26.1	Collection, Storage and utilized internal recovery in same process	<p><b>Complied.</b> Presently the Unit is having Partial CCA. Recycle Solvent is not being generated.</p>																		
<b>Details of Non-Hazardous waste &amp; its disposal (MSW and others):</b>																										
1	Fly Ash	Use of Coal	56590	0	56590		Sale to Brick Manufacturers, Construction activities and other end users.	<p><b>Complied.</b> Fly Ash disposal quantity is well within the given limit.</p> <table border="1"> <thead> <tr> <th colspan="2">Fly Ash</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>129.480</td> </tr> <tr> <td>Nov'23</td> <td>95.360</td> </tr> <tr> <td>Dec'23</td> <td>70.710</td> </tr> <tr> <td>Jan'24</td> <td>86.610</td> </tr> <tr> <td>Feb'24</td> <td>107.980</td> </tr> <tr> <td>Mar'24</td> <td>136.740</td> </tr> <tr> <td><b>Total</b></td> <td><b>626.880</b></td> </tr> </tbody> </table>	Fly Ash		Month	Quantity (MT)	Oct'23	129.480	Nov'23	95.360	Dec'23	70.710	Jan'24	86.610	Feb'24	107.980	Mar'24	136.740	<b>Total</b>	<b>626.880</b>
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2	Office Waste	Admin/Office	30	0	30		Collection, Storage, Transportation, Registered recyclers	<p><b>Complied.</b> Presently the Unit is having Partial CCA. Office waste is not being generated.</p>																		

3	Insulation Waste	Plant and machinery	150	24	174	Collection, Storage, Transportation disposal by at TSDF Site.	<b>Complied.</b> Insulation waste is not generated during the reporting period.																		
4	E-waste/ Electrical waste	Plant and machinery	25	1	26	Collection, Storage, Transportation, Disposal by selling authorized recyclers	<b>Complied.</b> E-waste has been disposed collectively from sister concern Unit-I																		
5	Battery waste	Plant and machinery	100 Nos.	0	100 Nos.	Collection, Storage, Transportation, Disposal by selling authorized recyclers	<b>Complied.</b> Battery waste disposal quantity is well within the given limit. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Battery waste</th> </tr> <tr> <th>Month</th> <th>Quantity (MT) sent to authorized recycler</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.00</td> </tr> <tr> <td>Nov'23</td> <td>0.00</td> </tr> <tr> <td>Dec'23</td> <td>0.00</td> </tr> <tr> <td>Jan'24</td> <td>0.00</td> </tr> <tr> <td>Feb'24</td> <td>0.00</td> </tr> <tr> <td>Mar'24</td> <td>0.00</td> </tr> <tr> <td><b>Total</b></td> <td><b>0.00</b></td> </tr> </tbody> </table>	Battery waste		Month	Quantity (MT) sent to authorized recycler	Oct'23	0.00	Nov'23	0.00	Dec'23	0.00	Jan'24	0.00	Feb'24	0.00	Mar'24	0.00	<b>Total</b>	<b>0.00</b>
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6	Bio-medical waste	Occupational health center	1	0.5	1.5	Collection, Storage, Transportation, Disposal to CBWTF-Incineration	<b>Complied.</b> Bio-medical waste disposal quantity is well within the given limit. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">Bio-medical waste</th> </tr> <tr> <th>Month</th> <th>Quantity (MT)</th> </tr> </thead> <tbody> <tr> <td>Oct'23</td> <td>0.0005</td> </tr> <tr> <td>Nov'23</td> <td>0.0002</td> </tr> <tr> <td>Dec'23</td> <td>0.0008</td> </tr> <tr> <td>Jan'24</td> <td>0.0001</td> </tr> <tr> <td>Feb'24</td> <td>0.0002</td> </tr> <tr> <td>Mar'24</td> <td>0.0003</td> </tr> <tr> <td><b>Total</b></td> <td><b>0.0021</b></td> </tr> </tbody> </table>	Bio-medical waste		Month	Quantity (MT)	Oct'23	0.0005	Nov'23	0.0002	Dec'23	0.0008	Jan'24	0.0001	Feb'24	0.0002	Mar'24	0.0003	<b>Total</b>	<b>0.0021</b>
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7	Glass Waste	Plant/lab/ Buildings	12	2	14	Collection, Storage, Transportation, disposal /sold to	<b>Complied.</b> Glass waste is not generated during the reporting period.																		



						scrap processors	
8	STP Waste (Sludge)	STP	120	0	120	Collection, Storage, Transportation, Disposal as manure.	<b>Complied.</b> STP waste is being utilized internally as manure in horticulture.
31.	Authorized end-users shall have permissions from the concerned authorities under Rule 9 of Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016						<p><b>Complied.</b> Presently the Unit is generating HCl and internally utilizing the same for manufacturing of Calcium Chloride. In case of any breakdown in CaCl<sub>2</sub> plant, unit is also selling it out to actual end-users having valid permissions from the concerned authorities under the Rule 9 and after executing MoU. Refer <a href="#">Annexure-20</a> for list of authorized end-users and MoU executed with them. Unit is also abiding by all the requirements prescribed in Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.</p> <p>Presently the unit is having Partial CCA. Unit will also follow the same guidelines for other Hazardous waste as and when generated.</p>
32.	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of incinerable & landfill wastes before sending to CHWIF & TSDF site respectively.						<p><b>Complied.</b> Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.</p>
33.	The unit shall submit the list of authorized end user of hazardous waste along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.						<p><b>Complied.</b> Presently the Unit is generating HCl and internally utilizing the same for manufacturing of Calcium Chloride. In case of any breakdown in CaCl<sub>2</sub> plant, unit is also selling it out to actual end-users having valid permissions from the concerned authorities under the Rule 9 and after executing MoU. Refer <a href="#">Annexure-20</a> for list of authorized end-users and MoU executed with them. Unit is also abiding by all the requirements prescribed in Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.</p>

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<b>A. 5</b>	<b>OTHER</b>	
34	The project proponent shall allocate the separate fund of 2.5 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's no. F. No. 2265/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	<b>Complied.</b> Kindly refer <a href="#">Annexure-21</a> for CSR/CER Activities carried out from Oct '23 to Mar'24.
35.	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s Jyoti Om Chemical Research Centre Pvt. Ltd. and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	<b>Complied.</b> All the recommendations / commitments made in the EIA report are being implemented.

<b>B</b>	<b>GENERAL CONDITIONS</b>	
<b>B.1</b>	<b>CONSTRUCTION PHASE</b>	
36.	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	<b>Complied.</b> Unit has adopted best construction practices to safeguard the water consumption & reduce the demand.
37.	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
38.	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<b>Complied.</b> Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> <li>• Clean up of jobsite after major tasks or at least daily;</li> <li>• Avoiding the build-up of hazardous, flammable, or combustible materials.</li> </ul>

		<p>Keeping walkways, stairs, and work areas clear.</p> <ul style="list-style-type: none"> <li>Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and decontaminate personal protective equipment (PPE).</li> </ul>
39.	First Aid Box shall be made readily available in adequate quantity at all the times.	<p><b>Complied.</b></p> <p>First Aid Boxes are available at prominent locations in adequate quantity.</p>
40.	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	<p><b>Complied.</b></p> <p>The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment &amp; Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.</p>
41.	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during the construction phase.	<p><b>Complied.</b></p> <p>Monthly Ambient Noise monitoring is being conducted by a MoEFF&amp;CC recognized and NABL accredited laboratory. Month-wise results of ambient noise monitoring are provided in the <a href="#">Annexure-22</a>. Ambient Noise Monitoring Report of Mar '24 is attached as <a href="#">Annexure-23</a> for reference.</p>
42.	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	<p><b>Complied.</b></p> <p>All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFF&amp;CC recognized and NABL accredited laboratory. Month-wise results of the DG Set monitoring are provided in the <a href="#">Annexure-17</a>. The results of the DG Set monitoring for Mar'24 are attached as <a href="#">Annexure-24</a>.</p>
43.	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	<p><b>Complied.</b></p>

		<p>Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.</p> 
44.	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	<p><b>Complied.</b> All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.</p>
45.	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during the construction phase shall not create adverse effect on neighbouring communities.	<p><b>Complied.</b> All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.</p>
46.	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	<p><b>Complied.</b> Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.</p>
47.	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	<p><b>Complied.</b> Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 &amp; MOU with the brick manufacturer is attached as <a href="#">Annexure-25</a>.</p>
48.	"Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.	<p><b>Complied.</b> Temporary wind shielding along with barricades of adequate height had been provided along the periphery of the project site.</p>
49.	"No uncovered vehicles carrying construction material and waste shall be permitted."	<p><b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.</p>

50.	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
51.	Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	<b>Complied</b>
52.	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	<b>Complied.</b> No excavation of soil is being carried out without adequate dust mitigation measures in place. Utmost measures are being adopted to prevent dust at our construction sites before carrying out any excavation activity.
53.	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	<b>Complied.</b>
54.	Grinding and cutting of building materials in open area shall be prohibited.	<b>Complied.</b>
55.	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	<b>Complied.</b>
56.	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	<b>Complied.</b>
<b>B.2</b>	<b>OPERATION PHASE</b>	
<b>B.2.1</b>	<b>WATER</b>	
57.	Industry should provide separate dedicated washing area for hand washing/bathing of worker and the wastewater generated from the same should-be taken into ETP.	<b>Complied.</b> Industry has provided a separate dedicated washing area for hand washing/bathing of worker and the wastewater generated from the same is being taken into ETP.
58.	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<b>Complied.</b> Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.


		
59.	All efforts shall be made to optimize water consumption by exploring Best Available Technology(BAT). The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	<b>Complied.</b>
<b>B.2.2 AIR</b>		
60.	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with the spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<b>Not Applicable</b> as the unit has not installed any spray dryer. The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in the CC&A.
61.	Acoustic enclosure shall be provided to the D.G. sets(If applicable) to mitigate the noise pollution and conform to the EPA Rules for air and noise emission standards.	<b>Complied.</b> The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.
62.	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	<b>Complied.</b> The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in the CC&A.
63.	Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&cc. At no time, emission level should go beyond the stipulated standards.	<b>Complied.</b> Unit is following the norms for flue gas & process gas emission as per the norms prescribed in the CC&A. The unit is carrying out stack analysis by a MoEF&CC recognised & NABL accredited laboratory. Refer compliance of condition 23 and 25 of A.3.

64.	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<b>Complied.</b> The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37 and the copy of the same is attached as <a href="#">Annexure-7</a> for your reference.
65.	Adequate Air Pollution Control Measures [APCM] shall be provided.	<b>Complied.</b> Adequate APCM is provided to all process and flue gas stacks as recommended by GPCB.
66.	The unit shall adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control. The Project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognized under Environment (Protection) Act, 1986.	<b>Complied.</b> The unit will adhere to Sector specific guidelines/ SOP published by GPCB / CPCB from time to time for effective fugitive emission control.
67.	Unit shall take adequate measures to control odor nuisance from the industrial activities which may include measures like-use of masking agent with atomizer system (water curtain), closed / automatic material handling system, containment of the odor vulnerable areas etc.	<b>Complied.</b> Odor control measures are in place to control odor nuisance from specific activities.
68.	Unit shall provide wall to wall carpeting in vehicle movement areas within premises to avoid dusting.	<b>Complied.</b>
<b>B.2.3 HAZARDOUS/SOLID WASTE</b>		
69.	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	<b>Complied.</b> Unit is strictly complying with the regulatory norms & maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Unit is strictly complying with all the conditions stipulated in our CC&A No. AWH-119949, date of issue: 05/07/2022 and CC&A amendment no. H-119950, date of issue: 05/08/2022, CCA amendment AWH-126636 dated 28/06/2023 valid till 30/04/2029.
70.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<b>Complied.</b> All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
71.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	<b>Complied.</b>

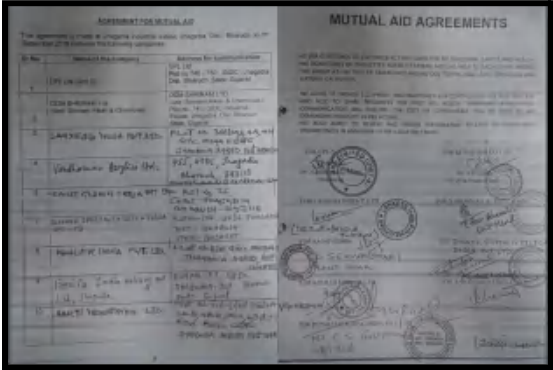
		Unit has taken necessary permission from the nearby TSDF site and CHWIF. Membership Certificates are attached as <a href="#">Annexure-26</a> .
72.	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	<b>Complied.</b> Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with an active AIS-140 GPS system.
73.	The design of the Trucks/tankers shall be such that there is no spillage during transportation.	<b>Complied.</b>
74.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
75.	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Complied.</b> Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 & MOU with the brick manufacturer is attached as <a href="#">Annexure-25</a> .
76.	unit shall carry out transportation of hazardous wastes through GPS mounted vehicles only for disposal at TSDF/CHWIF, co-processing and end-users having Rule-9 permission.	<b>Complied.</b> Unit is sending the Hazardous waste in a vehicle which has an AIS 140 GPS system.
77.	The by-products which fall under the purview of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 shall be handled as per the said rules and necessary permissions from the concern authority shall be obtained.	<b>Complied.</b>
78.	Unit shall submit the list of authorized end users of above mentioned wastes along with MoU Signed With them at least two months in advance prior to commencement of production. In absence of potential buyers of these items, the unit shall restrict the production of respective item.	<b>Complied.</b> Unit has submitted the list of authorized end user of hazardous waste along with MoU signed with them to the board on XGN portal.
79.	Industry shall dispose its hazardous wastes through co-processing, pre-processing to the extent possible prior its disposal to incineration/ landfill as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
<b>B.2.4</b>	<b>SAFETY</b>	



80.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	<p><b>Complied.</b></p> <p>Unit has obtained a valid Factory License (License No. 15402, valid upto 31<sup>st</sup> December, 2025). Factory License is attached as <a href="#">Annexure-9</a> for reference.</p>
81.	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	<p><b>Complied.</b></p> <p>The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.</p> <p>Following measures are taken:</p> <ul style="list-style-type: none"> <li>● PESO License obtained from DISH</li> <li>● Plan approval from DISH</li> <li>● Factory license obtained from DISH</li> <li>● MSDS for all chemicals</li> <li>● A mutual aid agreement to render all emergency services.</li> <li>● On site emergency plan (attached as <a href="#">Annexure-27</a>) and offsite mutual aid. (attached as <a href="#">Annexure-28</a>)</li> <li>● PLI Policy (attached as <a href="#">Annexure-29</a>)</li> </ul>
82.	Main entry and exit shall be separate and clearly marked in the facility.	<p><b>Complied.</b></p> <p>Main entry and exit of plant premises are separate.</p> <div data-bbox="987 1142 1536 1556" data-label="Image"> </div> <p style="text-align: center;"><b>Entry Gate</b></p>

		 <p style="text-align: center;"><b>Exit Gate</b></p>
83.	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	<p><b>Complied.</b> A clear margin excluding greenbelt has been provided for free movement of fire tender/ emergency vehicles around the premises.</p>
84.	Storage of flammable chemicals shall be sufficiently away from the production area.	<p><b>Complied.</b> Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval.</p>
85.	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	<p><b>Complied.</b> Sufficient no. of fire extinguishers are provided near the plant and storage area.</p>
86.	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	<p><b>Complied.</b> All necessary precautionary measures are taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals. HAZOP and Risk assessment system is in place. Induction/Refresher/specific training system is carried out on a regular basis for all employees.</p> <p>Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.</p>
87.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<p><b>Complied.</b> All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before</p>

		commencing the expansion activities. Maintaining the storage concept.
88.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<b>Complied.</b> Unit is strictly complying with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
89.	Only flame proof electrical fittings shall be provided in the plant premises.	<b>Complied.</b> Only flameproof electrical fittings are provided in the plant premises. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. The cover page of the same is attached as <a href="#">Annexure-12</a>
90.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	<b>Complied.</b> Unit is ensuring minimum storage of hazardous chemicals. Most of our raw materials are handled through small capacity tanks/containers.
91.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<b>Complied.</b> <ul style="list-style-type: none"> <li>● Dyke walls have been provided for all storage tanks.</li> <li>● Closed loops systems to transfer the materials to avoid leakage/ spillage.</li> <li>● Level transmitter/Level gauge provided to hazardous chemical storage tanks to avoid overflow.</li> <li>● Breather valve/safety valve/flame arrestor provided to hazardous chemical storage tanks as appropriate.</li> <li>● Close monitoring through the DCS panel.</li> <li>● Maximum allowable storage level is 80% of total capacity.</li> <li>● Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.</li> </ul>
92.	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	<b>Complied.</b> Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
93.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	<b>Complied</b> Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms)

		<p>Furthermore, Mutual Aid Agreement is done with neighboring industries for mutual help in the case of emergency.</p> 						
95.	<p>Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.</p>	<p><b>Complied.</b> Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.</p>						
93.	<p>First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.</p>	<p><b>Complied</b> First Aid Box and required Antidotes for the chemicals used in the unit are made readily available in adequate quantity.</p>						
97.	<p>Training shall be imparted to all the workers on safety and health aspects of chemicals handling.</p>	<p><b>Complied.</b> Regular training is conducted to all the workers on safety and health aspects of Chemical handling &amp; details of the same for the duration of Oct'23 to Mar'24 is given below:</p> <table border="1" data-bbox="980 1367 1503 1598"> <thead> <tr> <th>Training Topic</th> <th>No of participants</th> </tr> </thead> <tbody> <tr> <td>Environment/ Sustainability</td> <td>1000</td> </tr> <tr> <td>Safety Training (Work permit, Induction, Workplace safety etc)</td> <td>369</td> </tr> </tbody> </table>	Training Topic	No of participants	Environment/ Sustainability	1000	Safety Training (Work permit, Induction, Workplace safety etc)	369
Training Topic	No of participants							
Environment/ Sustainability	1000							
Safety Training (Work permit, Induction, Workplace safety etc)	369							
98.	<p>Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act &amp; Rules.</p>	<p><b>Complied.</b> OHC is maintaining all the records as per the Factories Act &amp; Rules. Pre-employment and periodical medical examinations for all the workers are done &amp; copy</p>						

		<p>of Form-32 &amp; 33 as prescribed in Gujarat Factory Rules are enclosed as an <a href="#">Annexure-30</a>.  Medical Examination of all company employees and contractual Employees was carried out in March 2024. including following medical tests.</p> <ul style="list-style-type: none"> <li>• General checkup (height, weight, pulse, BP etc)</li> <li>• Blood test (RBC, WBS, hemoglobin, platelets, blood group, differential count etc)</li> <li>• Urine test (physical, chemical and microbial examination etc)</li> <li>• Vision test</li> <li>• Pulmonary function test, etc.</li> </ul> <p>Details of periodical health surveillance of the workers is given below:</p> <table border="1"> <thead> <tr> <th>Month of surveillance</th> <th>Total no. of Person Examined</th> </tr> </thead> <tbody> <tr> <td>March 24</td> <td>1402 (Employee) + 556 (Contract)</td> </tr> </tbody> </table> <p>Records of Medical Check up are maintained.</p>	Month of surveillance	Total no. of Person Examined	March 24	1402 (Employee) + 556 (Contract)
Month of surveillance	Total no. of Person Examined					
March 24	1402 (Employee) + 556 (Contract)					
99.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<b>Complied.</b> Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.				
100.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<b>Complied.</b> Unit has implemented all the mitigation and recommendations mentioned in the EIA report.				
101.	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<b>Complied.</b> Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.				
102.	Effective safety precaution shall be taken for chemical storage, process handling and transportation hazard.	<b>Complied</b> Effective safety precautions are being taken for chemical storage, process handling and transportation hazards.				
103.	Unit shall prepare and implement SOP for safe operation of the works.	<b>Complied</b>				
104.	Comply the statutory provision of safety audit & its compliance report	<b>Complied.</b>				

		Safety audit report along with its compliance is being submitted to the DISH office regularly. The last safety report was submitted on 07.10.2022 which is attached as <a href="#">Annexure-31</a> .
105.	Effective step shall be taken for prevention of fire, explosion & toxic release.	<b>Complied</b> Effective steps are being taken for prevention of fire, explosion & toxic release.
<b>B.2.5 NOISE</b>		
106.	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<b>Complied.</b> Adequate measure are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Month-wise results of ambient noise monitoring are provided in the <a href="#">Annexure-22</a> . Ambient Noise Monitoring Report of Mar '24 is attached as <a href="#">Annexure-23</a> for reference.
<b>B.2.6 CLEANER PRODUCTION AND WASTE MINIMISATION</b>		
107.	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	Noted and will be complied

108.	<p>The company shall undertake various waste minimization measures such as :</p> <p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-products from the process as raw materials or as raw materials substitutes.</p> <p>c. Use of automated and close filling to minimize spillages.</p> <p>d. Use of close feed system into batch reactors.</p> <p>e. Venting equipment through vapour recovery system.</p> <p>f. Use of high pressure hoses for cleaning to reduce wastewater generation.</p> <p>g. Recycling of washes to subsequent batches.</p> <p>h Recycling of steam condensate.</p> <p>i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.</p> <p>j. Regular preventive maintenance for avoiding leakage, spillage etc.</p>	<p><b>Complied.</b></p> <p>Unit is undertaking all the measures for waste minimization.</p> <ul style="list-style-type: none"> <li>● All the liquid ingredients are being charged through measure vessels and/or flow meters to control on quantity as per the stoichiometry. All the solid ingredients are charged after proper weightment only. All these meters and weighing machines are calibrated and records are maintained.</li> <li>● Recovered solvents are being used as raw material in further steps.</li> <li>● Filling is done on weighing balance manually but in controlled manner to minimize spillage.</li> <li>● All reactors are in close loop and connected with condensers.</li> <li>● All the reactors are equipped with vents/stacks, which are connected to either vapor recovery system consisting of condensers, ejector/vacuum pumps and/or scrubbers</li> <li>● Many equipment like reactors, condensers wherever necessary are being cleaned with high pressure sparger/jet to reduce waste water generation.</li> <li>● Preventive Maintenance of Equipment is being carried out as per Standard Operating Procedure.</li> </ul>
<b>B.2.7 GREEN BELT AND OTHER PLANTATION</b>		
109.	<p>The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.</p>	<p><b>Complied.</b></p> <p>Presently the unit has developed Green Belt of approx. 11778 m<sup>2</sup> within the premises &amp; approx 40428 m<sup>2</sup> is developed at revenue survey plot No. 122 with varieties of indigenous trees. Total 28.61% (52206 m<sup>2</sup>) green belt area has been developed till date.</p> <p>Unit has started developing the remaining green belt inside the premises (approx 3000 m<sup>2</sup>) and also at revenue survey plot No. 123 &amp; 109 (approx 22055 m<sup>2</sup>) under social forestry.</p>
110.	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p><b>Complied.</b></p>

		We are using a low-volume, low-angle sprinkler system for the green belt development within the premises.
<b>B.3</b>	<b>OTHER CONDITIONS</b>	
111.	SEAC has accepted that there will not be any additional pollution load after merger of the ECs.	<b>Noted.</b>
112.	New EC order should be based on the total combined statement with implementable conditions superseding the old ECs.	<b>Noted.</b>
113.	Wherever waste water or chemical water to be collected by tankers and transported to CETP etc. any diversion and disposal in open drainage (nallah) etc. causing human and environmental damage or loss will make it liable for action under the law.	<b>Noted.</b>
114.	All transport movement by tankers etc has to be done with maintenance of gate pass and logbook it should be verified by the inspection authorities.	<b>Noted &amp; Complied.</b> All transport movement by tankers etc is done with maintenance of gate pass and logbook.
115.	Non-hazardous waste data shall be informed to GPCB time to time so as to make an assessment and tie-up with industry for generating sustainable power from the waste.	<b>Complied.</b>
116.	All chemical pharma industry etc. should ensure predictive and preventive maintenance of factory / boiler and reactive show as lo avoid incident bf fire and safety hazards	<b>Complied.</b>
117.	EMP should include STP and detail cost including maintenance, transportation of waste water to CETP / CMEE etc as well as transportation cost or transit cost.	<b>Noted &amp; Complied.</b>
118.	In LDAR preventive and predictive maintenance plan.	<b>Complied.</b> Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission.
119.	In LDAR leakage component, source of equipment leak, detention method should be given in table form.	<b>Complied.</b> Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission.
120.	In storage, component should be shown separately in terms whether inflammable, toxic, corrosive, reactive etc.	<b>Complied.</b>
121.	In case of Fly Ash generation its management and disposal should be as per Government of india Notification and 100% utilization should be ensured.	<b>Complied.</b> Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Fly Ash Return 23-24 & MOU with the brick manufacturer is attached as <a href="#">Annexure-25</a> .



122.	Project proponent (PP) shall install CEMS continuous Emission Monitoring System in line to CPCB directions to all SPCB vide letter no. & 29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time bases. [For small/Large/Medium (Red category) & whichever (Air emission & Effluent discharge) is applicable.	<b>Complied.</b> The unit has installed and connected required OCEMS to CPCB & GPCB for continuous monitoring of effluent discharge. Screenshots of the CPCB & GPCB portal are attached as <a href="#">Annexure-4</a>
123.	Project proponent shall install all environment management systems as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.	<b>Complied.</b> All environment management systems are installed as per the CPCB/GPCB directives regarding the effluent discharge and air emission in working condition.
124.	Project proponent shall display the copy of Environment Clearance at the site prominently.	<b>Complied.</b>
125.	Project proponent shall prepare and follow regular and preventive maintenance plan. The copy of same shall be submitted to SEIAA.	<b>Complied.</b>
126.	Project Proponent will have to display the safety procedure in working area.	<b>Complied.</b>
127.	The project proponent shall obtain all required permissions for safety, health and fire from competent authorities like PESO/Fire Authority etc. and intimate SEIAA.	<b>Complied.</b>
128.	Project Proponent will intimate SEIAA/SEAC/GPCB after obtaining the membership of common facilities like CETP /TSDF / CHWIF / CMEE / Common Spray Dryer as the case may be.	<b>Complied.</b>
129.	Extra care will be taken by PP to avoid any accidental blast in boiler, reactor or any machinery in the plant.	<b>Complied.</b>
130.	Environment monitoring, training and disaster management plan should be undertaken and complied at regular interval.	<b>Complied.</b> Environment monitoring, training and disaster management plan is being undertaken and implementation is ensured at regular intervals.
131.	Integrated Regional Office of MoEF&CC,Gandhinagar and GPCB will monitor all environment, safety & health norms as per the prevailing rules.	<b>Noted.</b>
132.	The PP has to maintain the logsheets / registers / manifest / gate pass for discharge through tankers and SCADA system for pipeline discharge for the waste water generation and its disposal data and submit to the GPCB every quarter. quarter. GPCB shall verify the same on regular basis and inform SEIAA and take legal action in case of non compliance.	<b>Complied.</b>

133.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum published by MoEF&CC	<b>Noted</b>
133.	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF& CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no XX)	<b>Complied.</b>
134.	The provisions of the Solid Waste Management Rules 2016, e waste (management) Rules, 2016, the Construction and Demolition Waste management Rules, 2016 and the Plastics Waste management Rules, 2016 shall be followed.	<b>Complied.</b>
135.	Rainwater harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	<b>Complied.</b> Unit assures to provide rain water harvesting at all possible locations & shall reuse the water after pre-treatment.
136.	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	<b>Complied.</b> Unit will join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.
137.	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	<b>Complied.</b> Unit has installed Solar panels at appropriate locations within the premises.
138.	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	<b>Complied.</b> Dedicated green belt area is embarked for plantation.
139.	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
140.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for

		the purpose of environmental protection and management.
141.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<b>Complied.</b> Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.
142.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority,	<b>Noted &amp; Complied</b> Unit is adhering to stipulations of Gujarat Pollution Control Board.
143.	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	<b>Complied.</b> Unit has provided a garland drain to avoid spillage mixing with stormwater.
144.	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<b>Complied.</b> Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
145.	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	<b>Complied.</b> Unit is using only mechanical seal pumps in order to avoid the leakages.
146.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<b>Complied.</b> The unit will take EC amendment if further expansion or modifications in the plant.
147.	The above conditions will be enforced; inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability insurance Act, 1991 along with their amendments and rules.	<b>Complied.</b> Unit has complied with all the requirements as per the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
148.	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time in a letter and spirit.	<b>Complied.</b> The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Kindly refer <a href="#">Annexure-21</a> for CSR/CER Activities carried out from Oct '23 to Mar'24.
149.	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and	<b>Complied.</b>

	safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
150.	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<b>Complied</b>
151.	The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.	<b>Complied.</b> Unit has informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. Advertisement was published in Times of India Edition (in English) and Narmada Bhaskar (in Gujarati) on 07 <sup>th</sup> June 2022. Copy of the same is attached as <a href="#">Annexure-32</a> .
152.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.	<b>Complied.</b> Unit is submitting the six monthly compliance report regularly. Last compliance report was submitted on 23.11.2023 for the period of Apr '2023 to Sept' 2023. Copy of the same is attached as <a href="#">Annexure-33</a> .
153.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted.</b> Unit assures the authority that no False/Fabricated data has been submitted herewith.
154.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<b>Complied</b> Unit is adhering to stipulations of Gujarat Pollution Control Board.
155.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<b>Noted.</b>
156.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<b>Complied.</b> Unit is implementing these conditions in a time bound manner.
157.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	<b>Not Applicable</b> as the Unit has not taken any loan from any bank. The project was self financed.

158.	This environmental clearance is valid for seven years from the date of issue.	<b>Noted.</b>
159	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Noted.</b>
160	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	<b>Noted.</b> Unit assures the authority that no False/Fabricated data has been submitted herewith.
<b>B.4</b>	<b>COMPLIANCE OF ENVIRONMENT CLEARANCE/REPORTING/ADMINISTRATION/APPEAL:</b>	
161.	Project proponent shall inform to all the concerned authorities including Municipal Corporation and District Collector and shall also give wide publicity through advertisement in minimum two local newspapers within seven days, about the Environment Clearance order accorded.	<b>Complied.</b> Unit has informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. Advertisement was published in Times of India Edition (in English) and Narmada Bhaskar (in Gujarati) on 07 <sup>th</sup> June 2022. Copy of the same is attached as <a href="#">Annexure-32</a> .
162.	Project proponent shall appoint a key person in the organization who shall be responsible for compliance of above condition fully on behalf of the proponent. It will not mean that appointing a key person will exempt the project proponent From the responsibility of compliance. Any change in key person shall immediately be informed to SEIAA and all concern authorities.	<b>Complied</b>
163.	Designated key person shall submit six monthly compliance report to SEIAA/SEAC, MOEF&CC, GPCB and Nodal Department of the Government.	<b>Complied.</b> Unit is submitting the six monthly compliance report regularly. Last compliance report was submitted on 23.11.2023 for the period of Apr '2023 to Sept' 2023. Copy of the same is attached as <a href="#">Annexure-33</a> .
164.	The Nodal Department or any authority or officer authorized by MOEF&CC/SEIAA can inspect the site of the project and all the facilities, for verification of compliance of environment clearance conditions.	<b>Noted.</b>
165.	In case of violation reported upon, the project proponent shall be responsible for all the legal actions as per Environment Protection Act, 1986 including SEIAA may cancel, withdraw or keep in abeyance, the Environment Clearance accorded.	<b>Noted.</b>
166.	Any person including the project proponent affected by this Environment Clearance order may file appeal to the Honorable National	<b>Noted.</b>

	Green Tribunal West Zone branch, Pune, preferably within a period of thirty days from the date of issue of Environment Clearance as prescribed under section 16 of National Green Tribunal Act 2010.	
167.	All complains and public grievance or representations may be addressed to SEIAA/SEAC in the email addresses (a)msseiaagj@gmail.com& (b) seacgujarat@gmait.com	<b>Noted.</b>

**Annexure-1**

**Environment Compliance Report of  
EC File No. SEIAA/GUJ/EC/5(f)/1161/2021  
Dated 02/07/2021**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/1161/2021 Dated 02/07/2021**

Sr. No:	Name of the Products	CAS No:	Capacity in MT / Year			End use of Products	Compliance
			As per existing EC	Proposed increase / decrease capacity	Total after expansion		
1	Hydrogen Gas	1333-74-0	3000 Nm3/Hr	0	3000 Nm3/Hr	Used in hydrogenation & reduction, preparation of AIPs such as anti-pyretic, anti-histaminic, anti-inflammatory, etc.	<p><b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.</p>
2	Purification of O/P/M Phenylene Di Amine	-	18000	0	18000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	
3	Calcium Chloride (Solid)	10043-52-4	72000	48000	120000	Oil exploration & used for Brine solution	



I.A	Group I.A - Chlorination Products and Its Derivatives: 90000 MT/ Year						
1	Mono Chloro Benzene (MCB) Either / OR	108-90-7					<b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14/70/2022. The production quantity is well within the permitted capacity.
2	Ortho Di Chloro Benzene (ODCB)/ Para di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) Either / OR	95-50-1/ 106-46-7/ 541-73-1					
3	123/ 124 Tri Chloro Benzene (TCB) Either/ OR	87-61-6/ 120-82-1	72000	18000			
4	Ortho Chloro Toluene (OCT)/ Para chloro toluene (PCT) Either/ OR	95-49-8/ 106-43-4			90000		
5	2- Chloro 4- Nitro Toluene Either/ OR	121-86-8					
6	6- Chloro 2- Nitro Toluene / 4-Chloro 2-Nitro Toluene Either/ OR	83-42-1/ 89-59-8					
7	Crude of All above Group I.A (Sr. No: 1-6 Chlorination products)	--	0	90000			
I.B	Group I.B- Chlorination Products and Its Derivatives: 7200 MT/Year						
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR	634-93-5	72000	-64800			<b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14/70/2022. The production quantity is well within the permitted capacity.
2	2,6 Di Chloro Para Nitro Aniline (2,6 DCPNA) Either/OR	99-30-9					
3	2,4 Di Chloro Ortho Nitro Aniline (2,4 DCONA) Either/OR	2683-43-4	0	7200	7200		
4	2, 4 Di Chloro Aniline Either/OR	554-00-7					

5	Crude of All above Group 1. B (Sr. No. 1-4 Chlorination products)	--					
<b>II.A Group II.A- Hydrogenated Products and Its Derivatives: 60000 MT/Year</b>							
1	Ortho Toluidine/ Para Toluidine/ MetaToluidine Either/OR	95-53-4/ 0/ 0	36000/ 0/ 0	2400/ 60000/ 60000	60000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Complied. Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/14 70/2022. The production quantity is well within the permitted capacity.
2	Meta Chloro Aniline /Ortho Chloro Aniline / Para Chloro Aniline Either/OR	108-42-9/ 95-51-2/ 106-47-8	36000	24000			
3	3,4 Di Chloro Aniline / 2,3 Di Chloro Aniline / 2,5 Di Chloro Aniline Either/OR	95-76-1/ 608-27-5/ 95-82-9					
4	2,4 Di Chloro Aniline / 2,6 Di Chloro Aniline / 4,5 Di chloro Aniliné Either/OR	554-00-7/ 608-31-1/ 626-43-7					
5	3,4 Di Amino Di Phenyl Ether / 4,4 Di amino Di phenyl Ether Either/OR	2657-87-6/ 101-80-4					
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR	90-04-0/ 104-94-9/ 536-90-3					
7	Chloro Fluoro Aniline Either/OR	367-21-5	36000				
8	Ortho Cumidine / Para Cumidine / Meta Cumidirie Either/OR	643-28-7/ 99-88-7/ 5369-16-4					
9	ToluidinesEither/OR	95-53-4					
10	Aniline/ Either/OR	82-53-3					
11	Para Fluoro Aniline / Meta Fluoro Aniline / Ortho Fluoro Aniline Either/OR	371-40-4/ 372-19-0/ 348-54-9					
12	1, 3 Di Fluoro Aniline/ 2,4	367-25-9	36000/ 0	24000/ 60000			

	Di Fluoro Aniline Either/OR						
13	1,3 Di Fluoro Benzene Either/OR	072-18-9					
14	4-Fluoro-N- isopropyl Aniline Either/OR	70441-63-3	36000	24000			
15	4-Chloro-N- Isopropyl Aniline Either/OR	770-40-1					
16	2,3,4 Tri Fluoro Aniline Either/OR	3862-73-5					
17	Crude of All above Group II. A (Sr. No. 1- 16 Hydrogenation products)	--	0	60000			

II.B	Group II.B- Hydrogenated Products and Its Derivatives: 36000 MT/Year						
1	2,4,5 Tri Chloro Aniline Either/OR	636-30-6					
2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR	108-45-2/ 95-54-5/ 106-50-3	36000	0	36000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	<b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/147 0/2022. The production quantity is well within the permitted capacity.
3	Para Amino Phenol/ Meta Amino Phenol Either/OR	123-30-8/ 591-27-5					
4	Crude of All above Group II. B (Sr. No.1-3 Hydrogenation products)	--	0	36000			
III	Nitration Products and Its Derivatives: 24000 MT/Year (expect 4NPI-12000 MT/Year)						
1	3,4 Di Chloro Nitro Benzene/ 2,5 Di Chloro Nitro Benzene/ 2,3 Di Chloro Nitro Benzene Either/OR	99-54-7/ 89-61-2/ 3209-22-1	24000	0	24000	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products.

2	2,4,5 Tri Chloro Nitro Benzene/ 2,3,4 Tri Chloro Nitro Benzene Either/OR	89-6e-0/17700-09-03					
3	Crude of All above Group III. (1-2 Nitration products)	--	0	24000			
4	4-Nitro N-methyl Phthalimide (4NPI) Either/OR	41663-84-7	24000	-12000			
5	Crude of 4-Nitro N-methyl Phthalimide (4NPI)	--	0	12000	12000		
<b>IV</b>	<b>Nitro Anisoles Products and Its Derivatives: 14400 MT/Year</b>						
1	Ortho Nitro Anisole Either/OR	91-23-6	14400	0	14400	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	Para Nitro Anisole Either/OR	100-17-4					
3	Crude of All above Group IV. (1-2 Nitro Anisol products)	--	0	14400			
<b>V</b>	<b>De-Nitro Chlorination Products and Its Derivatives: 14400 MT/Year</b>						
1	2,6 Di Chloro fluoro Benzene Either/OR	2268-05-05	14400	0	14400	Dyes, Dye intermediate s, Basic pharma intermediate s, Pigments, Polymer	<b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	2,6 Di Chloro Benzo nitrile Either/OR	1194-65-6					
3	Meta Di chloro Benzene Either/OR	541-73-1					
4	2,4 Di fluoro Chloro Benzene Either/OR	1435-44-5					
5	2,4 Di chloro Fluoro Benzene Either/OR	1435-48-9					
6	1,3 Dichloro 4,6 Difluorc Benzene/ 1,5 Dichloro 2,4 Difluoro Benzene Either/OR	2253-30-7					
7	Crude of All above Group V (Sr. No. 1-6 De Nitro Chlorination products)	--	0	14400			

VI	DAPBI 2. (4-amino phenyl) - 1 H- benzo (d) imidazol - 5- amine	7621-86-5	0	756	756	Polymer	
VII	Concentrated Nitric Acid from Dilute Nitric Acid (CNA from DNA)	7697-37- 2	0	108000	108000	Various applications in chemical industries.	
	Total		3000 NM3/Hr + 250800 MT/Annum	242256 MT/Ann um	3000 Nm3/Hr + 492756 MT/An num		
<b>By-Products</b>							
1	Steam (By product)	--	136.56 KL/Day	0	136.56 KL/Day		<b>Complied.</b> Please refer production details as mentioned in EC File No. SEIAA/GUJ/EC/5(f)/147 0/2022. The By-product generation is well within the permitted capacity.

<b>A</b>	<b>CONDITIONS</b>	
<b>A.1</b>	<b>SPECIFIC CONDITION</b>	<b>Status</b>
1	Unit shall install CEMS ( <b>Continuous Emission Monitoring System</b> ) in line to CPCB directions to all SPCB vide letter no. B-29016/04/06PCI-1/5401 dated 05/02/2014 for effluent discharge and air emission as per pollutants discharge/emission from respective project and an arrangement shall also be done for reflecting the online monitoring results on the company's server, which can be assessable by the GPCB/CPCB on real time basis. ( <b>For small/Large/Medium (Red Category) &amp; Whichever (Air emission &amp; Effluent discharge) is applicable</b> ).	<b>Complied.</b> The unit has installed and connected required OCEMS to CPCB & GPCB for continuous monitoring of effluent discharge. Please refer to the compliance of condition no. 6 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

2	All measures shall be taken to prevent soil and groundwater contamination.	<p><b>Complied.</b></p> <p>Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
3	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	<p><b>Complied.</b></p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&amp;CC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Please refer to the compliance of condition no. 7 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
4	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. (E) dated 21/07/2010 and amended from time to time shall be followed.	<p><b>Complied.</b></p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37.</p> <p>Please refer to the compliance of condition no. 8 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
5	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants and shall carry out the project development in accordance & consistency with the same.	<p><b>Complied.</b></p> <p>Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.</p>

6	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	<b>Complied</b> Unit is adhering to stipulations of Gujarat Pollution Control Board.
7	The PP shall develop green belt within premises (26,257 Sq m (14.39 %) within premises + 34,153 Sq. m (18.71%) at plot having survey No: 122 GIDC Jhagadia= Total 60,410 i.e. 33.10 % of the total plot area) as committed before SEAC. Green belt shall be developed with native plant species that are significant and used for the pollution abatement as per the CPCB guidelines. It shall be implemented within 3 years of operation phase in consultation with GPCB.	<b>Complied.</b> The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

8	<b>Safety &amp; Health</b>	
a	PP shall obtain PESO permission for the storage and handling of hazardous chemicals.	<b>Complied.</b> Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval. Please refer to the compliance of condition no. 12(a) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
b	PP shall provide Occupational Health Centre (OHC) as per the provisions under the Gujarat Factories Rule 68-U.	<b>Complied.</b> Unit has provided an Occupational Health center within the site as per the provision under the Gujarat Factories Rule 68-U and the same is being operated under the supervision of a qualified Factory Medical Officer (FMO) and nurses. Please refer to the compliance of condition no. 12(b) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
c	PP shall obtain fire safety certificate / Fire No-Objection certificate (NOC) from the concern authority as per the prevailing Rules / Gujarat Fire Prevention and Life Safety Measures Act, 2016.	<b>Complied.</b> Unit has obtained a valid Factory License. Please refer to the compliance of condition no. 12(c) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
d	Unit shall adopt functional operational process automation system including emergency response to eliminate risk associated with the hazardous processes.	<b>Complied.</b> Unit has adopted an operational process automation system like DCS for operation, monitoring and control. Other auxiliary systems are also controlled through PLC & SCADA

		(wherever required). Additionally, process safety devices like PSVs (Pressure safety valves), safety interlocks, emergency on/off buttons, LEL detectors, automatic sprinkler systems etc are integral part of automation systems for early detection of emergency and eliminating the risk.
e	PP shall carry out mock drill within the premises as per the prevailing guidelines of safety and display proper evacuation plan in the manufacturing area in case of any emergency or accident.	<b>Complied.</b> Unit regularly conducts mock drills within the premises. Please refer to the compliance of condition no. 12(e) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
f	PP shall install adequate fire hydrant system with foam trolley attachment within premises and separate storage of water for the same shall be ensured by PP.	<b>Complied.</b> Unit has adequately provided fire hydrant system with dedicated Fire Water Storage. Please refer to the compliance of condition no. 12(f) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
g	PP shall take all the necessary steps for control of storage hazards within premises ensuring incompatibility of storage raw material and ensure the storage keeping safe distance as per the prevailing guidelines of the concerned authority.	<b>Complied.</b> All materials are stored as per approved compatibility matrix. Moreover, dedicated storage facility of flammable chemicals & hazardous chemicals provided at safer distance from production area as per PESO approval.
h	PP shall take all the necessary steps for human safety within premises to ensure that no any harm is caused to any worker/employee or labor within premises	<b>Complied.</b> All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs like Safety shoes, Safety goggles, Helmet, gloves, cartridge mask, ear plug/muff etc. is ensured so that no harm is caused to any worker/employee.
i	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	<b>Complied.</b> Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Please refer to the compliance of condition no. 12(i) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
j	Unit shall never store drum/barrels/carboys of incompatible material/chemical together.	<b>Complied.</b> All materials are stored as per approved compatibility matrix.



<b>k</b>	Unit shall provide effective Isolation for Process area and storage of hazardous chemicals.	<b>Complied.</b> Storage of flammable & hazardous chemicals is away from the production area.
<b>l</b>	Unit shall provide safety valve & rupture disc to the Hydrogenation vessel.	<b>Complied.</b> Unit has provided safety valve & rupture disc in all Hydrogenation vessel.
<b>m</b>	Unit shall provide chlorine leakage control emergency kit and FRP hood with scrubber system for chlorine safety.	<b>Complied.</b> Unit has provided FRP hood with scrubber system & emergency kit for controlling chlorine leakage and handling any emergency. Presently chlorine is supplied through pipelines.
<b>n</b>	Unit shall provide safety valve and rapture disc, as well as auto dump or auto quench/ suppress system for nitration vessel safety.	<b>Complied.</b> Unit shall provide safety valve and rapture disc, as well as auto dump or auto quench/ suppress system for nitration vessel safety during the installation of plant. Unit is yet to obtain CC&A for nitration products.

<b>A.2</b>	<b>WATER</b>	
<b>9</b>	Total water requirement for the project shall not exceed 7439.28 KLD. Unit shall reuse 2108.28 KLD of treated industrial effluent within premises. Hence, fresh water requirement shall not exceed 5331 KLD and it shall be met through GIDC water supply only. Prior permission from concerned authority shall be obtained for withdrawal of water.	<b>Complied.</b> The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>10</b>	The industrial effluent generation from the project shall not exceed 2260 KLD.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

11	Industrial effluent shall be segregated into two streams (1) High COD and TDS effluent (2) Low COD and TDS effluent and it shall be managed as below.	
>	<b>High COD and TDS effluent (1244 KLD):</b>	
	1073 KLD, High COD and TDS effluent from process, washing, scrubber & reaction and 171 KLD, industrial effluent from M/s Aarti Industries Ltd (Unit-III) shall be treated in ETP consists of primary treatment units. Out of 1243 KLD treated effluent, 540 KLD shall be discharge in NCTL, pipeline and 703 KLD shall be further treated within premises	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 & 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
>	<b>Low COD and TDS effluent (1719 KLD):</b>	
	703 KLD, treated effluent, 956 KLD, Low COD effluent from utilities and 60 KLD, Industrial effluent from M/s Aarti Industries (Unit-III) shall be treated in RO. 1375 KLD, RO permeate shall be reused within premises and 344 KLD, RO reject shall be treated in MEE. 318 KLD, MEE condensate shall be reused within premises.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 & 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12	Treated waste water shall be sent to M/s NCTL, pipeline only after complying with the inlet norms of common facilities prescribed by GPCB to ensure no adverse impact on Human Health and Environment.	<b>Complied.</b> The treated effluent is meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.
13	Unit shall feed wastewater to in-house MEE only after ensuring content of effluent for COD/VOC so as not to get air borne during evaporation in order to achieve no adverse impacts on Environment and Human Health.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14	Domestic wastewater generation shall not exceed 150 KL/day for proposed project and it shall be treated in STP. It shall not be disposed off through soak pit/ septic tank. Treated sewage shall be utilized for gardening and plantation purpose within premises after achieving on-land discharge norms prescribed by the GPCB or reused in process & cooling water.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

15	During monsoon season when treated sewage may not be required for the plantation / Gardening / Green belt purpose, it shall be reused within process & cooling tower. There shall be no discharge of waste water outside the premises in any case.	<b>Complied.</b> During the rainy season sewage generated from the domestic activities are treated in STP & used in cooling towers as a makeup water.
16	The unit shall provide metering facility at the inlet and outlet of ETP, RO, MEE & STP and maintain records for the same.	<b>Complied.</b> Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
17	Proper logbooks of ETP, RO, MEE & STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity & quality of treated effluent, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	<b>Complied.</b> Unit is maintaining proper logbooks of ETP, STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity & quality of treated effluent, power consumption. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

<b>A.3 AIR</b>							
18 Unit shall not exceed fuel consumption for boilers, TFHs, HAGs and oxidizers and D G Set as mentioned below:							
Sr. No:	Source of emission with capacity	Stack Height (m)	Type of Fuel	Quantity of Fuel (MT/Day)	Type of emission i.e. Air Pollutants	Air Pollution Control Measures (APCM)	
1	DG Set 650 KVA (2 Nos.) Existing	11	HSD	7086 Lit/Hr.	Particulate matter SO2 NOx	Acoustic Enclosure	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
2	DG Set 1010 KVA (7 Nos.) Existing + 3 Proposed)	11	HSD			Acoustic Enclosure	
3	DG Set 2500 KVA (4 Nos. Proposed)	11	HSD			Acoustic Enclosure	
4	DG Set 750 KVA (3 Nos. Existing)	11	HSD			Acoustic Enclosure	

5	DG Set 1500 KVA (2 Nos. Proposed)	11	HSD			Acoustic Enclosure	
6	Boiler 30 TPH (2 Nos. Existing)	52 m each	Coal	7.5 MT/Hr. For each Boiler		Lime addition along with coal +ESP	
7	Boiler 150 TPH (1 Nos. Proposed)	83	Coal	37.5 MT/Hr.		Lime addition along with coal +ESP	
8	Thermic Fluid Heater (Thermopack) 4 Lakh Kcal/Hr (1 No. -Proposed)	20 (For Coal) & 15 (For Natural Gas)	Coal/NG	0.2 MT/Hr/6 Nm3/Hr	Particulate matter SO2 NOx	Dust Collector, Cyclone Separator (For Coal)	
9	Thermic Fluid Heater (Thermopack) 40 Lakh Kcal/Hr (2 Nos.- Proposed)	34 m each	Coal	1.95 MT/Hr for Each		Bag Filter	
10	Hot Air Generator (For Calcium Chloride Dryer) - (1 No. Proposed)	33	Coal	8 MT/Hr.		Cyclone Separator, Bag filter & Water Scrubber	
11	Vent gas oxidizer - gl No. - Proposed)	30	Natural gas	41 Nm3/Hr.		--	
19	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:					<b>Complied.</b> Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per standards mentioned in CC&A.	
20	Unit shall provide adequate APCM with process gas generation sources as mentioned below:						

Sr. No:	Specific Source of emission (Name of the product & process)	Type of emission	Stack/Vent Height (m)	Air Pollution Control Measures (APCM)
1	Reformer-Existing	CO	26	-
2	CaCO <sub>3</sub> Reactor-Existing	HCl	23	Alkali Scrubber
3	CaCl <sub>2</sub> Dryer vent-Existing	Particulate Matter	20	Cyclone separators & Wet Scrubber
4	Chlorinator Reactor vent-Existing	HCl Chlorine	15	Falling film absorber followed by Alkali Scrubber
5	Nitration Vessels-Existing NOx	NOx	15	Acidic Scrubber
6	CLB-Cl <sub>2</sub> scrubber-Proposed	Cl <sub>2</sub>	15	Single Stage, 10% NaOH
7	CLB - PDCB Scrubbers-Proposed	VOC	15	Single Stage, ODCB
8	CLB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber
9	CLB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber
10	TCB - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber
11	TCB - Cl <sub>2</sub> Scrubber-Proposed	Cl <sub>2</sub>	15	Single Stage, 10% NaOH
12	TCB - ODCB Scrubber-Proposed	VOC	15	Single Stage, ODCB
13	DCPNA - HCL Scrubber-Proposed	HCl	15	HCl absorber followed by caustic scrubber
14	DCPNA - Cl <sub>2</sub> Scrubber-Proposed	Cl <sub>2</sub>	15	Single Stage, 10% NaOH
15	DAPBI Process	HCl	15	Water Scrubber followed by Alkali Scrubber
16	DAPBI Process	NH <sub>3</sub>	15	Acidic Scrubber

**Complied.**

The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. Unit has provided adequate APCMs in the existing process gas generation sources & is achieving the norms as per standards mentioned in CC&A.

17	ETP Scrubber	NH3	15	Acidic Scrubber	
21	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.				<p><b>Complied.</b></p> <p>Please refer to the compliance of condition no. 26 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
	1. Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.				
	2. Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.				
	3. A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive & transport dust emission.				
22	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.				<p><b>Complied.</b></p> <p>The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37.</p> <p>Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
23	Regular monitoring of ground level concentration of PM10, PM2.5, SO2, NOx, CO, HCI, Cl2, NH3 and VOCs shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.				<p><b>Complied.</b></p> <p>Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&amp;CC approved and NABL Accredited laboratory. All results are well within the prescribed limits.</p> <p>Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

<b>A.4</b>	<b>SOLID / HAZARDOUS WASTE</b>							
24	All the hazardous/ solid waste management shall be taken care as mentioned below:							
<b>Sr. No:</b>	<b>Type of hazardous Waste</b>	<b>Source of Generation</b>	<b>Existing in MT/Y ear</b>	<b>Proposed (Increase or)</b>	<b>Total After Proposed</b>	<b>Hazardous Waste Category No:</b>	<b>Mode of Disposal</b>	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of

				decrease) in MT/Year	Expansion in MT/Y			condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
1	MEE/evaporation Salt MEE salt	ETP Plant	50	9440	9490	35.3	Collection, storage, transportation & disposal at approved TSDF site	
	ETP Waste		2880	6927	12910			
	ETP Waste	ETP Waste from Unit-III	0	3103				
	Silica	CaCl2 Process	10840	8672	19512			
2	Used oil	Utility	18.4	21.6	40	5.1	Collection, Storage, Transportation, & Disposal by selling to registered re-processors	
3	Empty Barrels & Empty HDPE bags	R.M. storage area	33	167	200	33.1	Collection, storage, transportation; decontamination & Disposal to Recycler/TSDF/ sending back to raw material supplier.	
	Discarded Containers/Bags		15	85	100			

							ng sending back to raw material supplier.
4	Distillation residue & waste	Process	1404	0	1404		Collection, storage, transportation & disposal to incineration at TSDf site/Co-processing.
5	Process residue	Process	1613	10867	12480	26.1	
6	Spent Catalyst	Hydrogenation process	235	209	444	26.5	Collection, storage, transportation & disposal to registered re-generators / TSDf site.
7	Hydrochloric acid (HCL)	Scrubber	145272	60348	205620	B15 of Schedule-II	Collection, storage, transportation & reused in manufacturing of CaCl <sub>2</sub> . OR sold to authorized actual end users having



							Rule 9 permission.
8	Spent Sulphuric acid (H2SO4)	Process	9300	11556	20856	B15 of Schedule-II	Collection, storage, transportation & sold to authorized end users having Rule 9 permission.
9	Sodium Hydrochlorite (NaOCl)	Process	0	45084	45084	B15 of Schedule-II	Collection, storage, transportation & sold to authorized end users having Rule 9 permission.
10	Sodium Chloride (NaCl)	Process	24828	19332	44160	B15 of Schedule-II	Collection, storage, transportation & sold to authorized end users having Rule 9 permission/ TSDf site for landfill
11	Ortho Nitro Phenol (ONP) Para Nitro Phenol (PNP)	Process	492	0	492	-	Collection, storage, transportation & sold to authorized end users having Rule 9 permission.

12	Nitrosyl/ Sulphuric Acid (NSA)	Process	0	17652	17652	B15 of Schedule- II	Collection, storage,trans portation & sold to authorized actual end users having Rule 9 permission.
13	Calcium Chloride Solution brine as	Process	0	120000	120000	Class C2 of Schedule- II	Collection, storage,trans portation & sold to authorized actual end users having Rule 9 permission.
14	Spent Carbon	Process and ETP	0	1020	1020	36.2	Collection, storage,trans portation & sent for Co-processin g/ incineration.
15	Off-specification product	Process	0	25	25	26.1	Collection, storage,trans portation & disposal to Co-processin g/ incineration .
16	PPE's Waste, non-recyclable plastic waste	Operatio n Waste	0	200	200	33.1	Collection, storage,trans portation & disposal to Land filling.
17	Contaminated Cotton Waste, Paper Waste, Contaminated Woods	Operatio n Waste	0	150	150	26.1	Collection, storage,trans portation & disposal to incineration /Co-processin g.

18	Stripper TOP containing organic content	Stripper	0	1095	1095	26.1	Collection, storage, transportation & disposal to incineration /Co-processing.
19	Spent solvent	Process	0	35	35	26.1	Collection, storage, transportation & disposal to incineration /Co-processing or Approved Recycler.
20	Recycle Solvents	Process	0	212368	212368	-	Collection, storage & utilize internal recovery in same process.
25	Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.						<p><b>Complied.</b></p> <p>Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
26	Unit shall explore the possibilities for environment friendly methods like co-processing of hazardous waste for disposal of Incinerable & land fillable wastes before sending to CHWIF & TSDF sites respectively.						<p><b>Complied.</b></p> <p>Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.</p>
27	The unit shall submit the list of authorized end users of hazardous wastes along with MoU signed with them at least two months in advance prior to the commencement of production. In the absence of potential buyers of these items, the unit shall restrict the production of the respective items.						<p><b>Complied.</b></p> <p>Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

<b>A.5</b>	<b>OTHER</b>						
28	The project proponent shall allocate the separate fund of 2.5 Crore as committed before SEAC. The entire activities proposed under CER shall be part of the Environment Management Plan (EMP) as per the MoEF&CC's no. F. No. 2265/2017-IA.III dated 30.09.2020. This shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part						<p><b>Complied.</b></p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas.</p> <p>Please refer to the compliance of condition no.</p>

	of half-yearly compliance report and to the District Collector. The monitoring report shall be posted on the website of the project proponent.	148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
29	All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s Jyoti Om Chemical Research Centre Pvt. Ltd. and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.	<b>Complied.</b> All the recommendations / commitments made in the EIA report are being implemented.

<b>B</b>	<b>GENERAL CONDITIONS</b>	
<b>B.1</b>	<b>CONSTRUCTION PHASE</b>	
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	<b>Complied.</b> Unit has adopted best construction practices to safeguard the water consumption & reduce the demand.
31	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<b>Complied.</b> Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> <li>• Clean up of jobsite after major tasks or at least daily;</li> <li>• Avoiding the build-up of hazardous, flammable, or combustible materials. Keeping walkways, stairs, and work areas clear.</li> <li>• Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and</li> </ul>

		decontaminate personal protective equipment (PPE).
33	First Aid Box shall be made readily available in adequate quantity at all the times.	<b>Complied.</b> First Aid Boxes are available at prominent locations in adequate quantity.
34	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	<b>Complied.</b> The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during construction phase.	<b>Complied.</b> Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 41 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	<b>Complied.</b> All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 42 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	<b>Complied.</b> Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.
38	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	<b>Complied.</b> All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after	<b>Complied.</b>

	taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during construction phase shall not create adverse effect on neighbouring communities.	All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
40	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC and lead free paints in the project.	<b>Complied.</b> Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	<b>Complied.</b> <b>Complied.</b> Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
42	"Wind - breaker of appropriate height i.e. 1/3rd of the building height and maximum up to 10 meters shall be provided. Individual building within the project site shall also be provided with barricades.	<b>Complied.</b> Temporary wind shielding along with barricades of adequate height had been provided along the periphery of the project site.
43	"No uncovered vehicles carrying construction material and waste shall be permitted."	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
44	"No loose soil or sand or construction & demolition waste or any other construction material that cause dust shall be left uncovered. Uniform piling and proper storage of sand to avoid fugitive emissions shall be ensured."	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. No uncovered vehicles carrying the construction material and waste are permitted in the plant.
45	Roads leading to or at construction site must be paved and blacktopped (i.e. - metallic roads).	<b>Complied</b>
46	No excavation of soil shall be carried out without adequate dust mitigation measures in place.	<b>Complied.</b> No excavation of soil is being carried out without adequate dust mitigation measures in place. Utmost measures are being adopted to prevent dust at our construction sites before carrying out any excavation activity.
47	Dust mitigation measure shall be displayed prominently at the construction site for easy public viewing.	<b>Complied.</b>

48	Grinding and cutting of building materials in open area shall be prohibited.	<b>Complied.</b>
49	Construction material and waste should be stored only within earmarked area and road side storage of construction material and waste shall be prohibited.	<b>Complied.</b>
50	Construction and demolition waste processing and disposal site shall be identified and required dust mitigation measures be notified at the site. (If applicable).	<b>Complied.</b>

<b>B.2</b>	<b>OPERATION PHASE</b>	
<b>B.2.1</b>	<b>WATER</b>	
51	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<b>Complied.</b> Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.
52	All efforts shall be made to optimize water consumption by exploring Best Available Technology(BAT). The unit shall continuously strive to reduce,recycle and reuse the treated effluent.	<b>Complied.</b>
<b>B.2.2</b>	<b>AIR</b>	
53	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with the spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<b>Not Applicable</b> as the unit has not installed spray dryer. The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in valid CC&A.
54	Acoustic enclosure shall be provided to the D.G. sets(If applicable) to mitigate the noise pollution and conform to the EPA Rules for air and noise emission standards.	<b>Complied.</b> The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.
55	Stacks/Vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	<b>Complied.</b> The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in valid CC&A.

56	Flue gas emission & Process gas emission (If any) shall conform to the standards prescribed by the GPCB/CPCB/MoEF&cc. At no time, emission level should go beyond the stipulated standards.	<b>Complied.</b> Unit is following the norms for flue gas & process gas emission as per valid CC&A. The unit is carrying out stack analysis by a MoEF&CC recognised & NABL accredited laboratory. All results are well within the prescribed limits.
57	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<b>Complied.</b> Closed handling and charging systems are provided for chemicals. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2.3</b>	<b>HAZARDOUS/SOLID WASTE</b>	
58	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage / disposal of hazardous wastes.	<b>Complied.</b> Unit is strictly complying with the regulatory norms & maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.
59	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<b>Complied.</b> All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
60	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	<b>Complied.</b> Unit has taken necessary permission from the nearby TSDF site and CHWIF.
61	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	<b>Complied.</b> Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
62	The design of the Trucks/tankers shall be such that there is no spillage during transportation.	<b>Complied.</b>



63	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
64	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Complied.</b> 100% Fly ash is utilized by the authorized Brick manufacturer after having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2.4</b>	<b>SAFETY</b>	
65	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	<b>Complied.</b> Unit has obtained valid Factories License.
66	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	<b>Complied.</b> The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
67	Main entry and exit shall be separate and clearly marked in the facility.	<b>Complied.</b> Main entry and exit of plant premises are separate.
68	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	<b>Complied.</b>
69	Storage of flammable chemicals shall be sufficiently away from the production area.	<b>Complied.</b> Storage of flammable & hazardous chemicals is away from the production area.
70	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	<b>Complied.</b> Fire extinguishers are provided near the plant and storage area for the emergency situation.
71	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	<b>Complied.</b> All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs is being done to ensure that no harm is caused

		to any worker/employee while handling toxic / hazardous chemicals.
72	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<b>Complied.</b> All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities. Maintaining the storage concept.
73	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<b>Complied.</b> Unit strictly complies with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
74	Only flame proof electrical fittings shall be provided in the plant premises.	<b>Complied.</b> Only flameproof electrical fittings are provided in the plant premises. Unit has carried out Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. Please refer to the compliance of condition no. 12 (j) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
75	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	<b>Complied.</b> Maintaining the storage concept. Unit is not handling small containers like drums/carbouys. Most of our raw materials are handled through ISO tankers/containers.
76	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• Dyke walls have been provided for all storage tanks.</li> <li>• Closed loops systems to transfer the materials to avoid leakage/ spillage.</li> <li>• Level transmitter/Level gauge provided to hazardous chemical storage tanks to avoid overflow.</li> <li>• Breather valve/safety valve/flame arrestor provided to hazardous chemical storage tanks as appropriate.</li> <li>• Close monitoring through the DCS panel.</li> <li>• Maximum allowable storage level is 80% of total capacity.</li> </ul>


		<ul style="list-style-type: none"> <li>Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.</li> </ul>
77	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	<p><b>Complied.</b> Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.</p>
78	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	<p><b>Complied</b> Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
79	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	<p><b>Complied.</b> Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.</p>
80	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<p><b>Complied</b> First Aid Box and required Antidotes for the chemicals used in the unit are made readily available in adequate quantity.</p>
81	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<p><b>Complied.</b> Regular training is conducted to all the workers on safety and health aspects of Chemical handling. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
82	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	<p><b>Complied.</b> OHC is maintaining all the records &amp; Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act &amp; Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

83	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<b>Complied.</b> Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
84	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<b>Complied.</b> Unit has implemented all the mitigation and recommendations mentioned in the EIA report.
85	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project	<b>Complied.</b> Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
<b>B.2.5</b>	<b>NOISE</b>	
86	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<b>Complied.</b> Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106 of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022
<b>B.2.6</b>	<b>CLEANER PRODUCTION AND WASTE MINIMISATION</b>	
87	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	<b>Complied</b>

88	<p>The company shall undertake various waste minimization measures such as :</p> <p>a. Metering and control of quantities of active ingredients to minimize waste.</p> <p>b. Reuse of by-products from the process as raw materials or as raw materials substitutes.</p> <p>c. Use of automated and close filling to minimize spillages.</p> <p>d. Use of close feed system into batch reactors.</p> <p>e. Venting equipment through vapour recovery system.</p> <p>f. Use of high pressure hoses for cleaning to reduce wastewater generation.</p> <p>g. Recycling of washes to subsequent batches.</p> <p>h Recycling of steam condensate.</p> <p>i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation.</p> <p>j. Regular preventive maintenance for avoiding leakage, spillage etc.</p>	<p><b>Complied.</b></p> <p>Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
<b>B.2.7</b>	<b>GREEN BELT AND OTHER PLANTATION</b>	
89	<p>The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.</p>	<p><b>Complied.</b></p> <p>The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
90	<p>Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.</p>	<p><b>Complied.</b></p>
<b>B.3</b>	<b>OTHER CONDITIONS</b>	
91	<p>Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by MoEF&amp; CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).</p>	<p><b>Complied.</b></p>
92	<p>The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEFCC as a part of half-yearly compliance report and to district collector. The</p>	<p><b>Complied.</b></p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas.</p> <p>Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

	monitoring report shall be posted on the website of the project proponent.	
93	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	<b>Complied.</b> Unit assures to provide rain water harvesting at all possible locations and shall reuse the water after pre-treatment.
94	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	<b>Complied.</b> Unit will join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.
95	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	<b>Complied.</b> Unit ensures to use solar energy.
96	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	<b>Complied.</b> Dedicated green belt area is embarked for plantation.
97	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
98	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
99	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<b>Complied.</b> Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.
100	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority,	<b>Noted &amp; Complied</b> Unit is strictly complying with all the conditions stipulated in valid CC&A.

101	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	<b>Complied.</b> Unit has provided a garland drain to avoid spillage mixing with stormwater.
102	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<b>Complied.</b> Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
103	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	<b>Complied.</b> Unit is using only mechanical seal pumps in order to avoid the leakages.
104	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<b>Noted.</b>
105	The above conditions will be enforced; inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act,1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability insurance Act, 1991 along with their amendments and rules.	<b>Complied.</b> Unit assures to comply with all the requirements as per the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
106	The project proponent shall comply all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014 and its amendments from time to time in a letter and spirit.	<b>Complied.</b> The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
107	The project management shall ensure that unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	<b>Complied.</b> Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
108	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	<b>Complied</b>

109	<p>The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/ SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.</p>	<p><b>Complied.</b>  Unit has informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. Advertisement was published in Times of India (in English) and Sandesh (in Gujarati) on 14<sup>th</sup> July 2021. A copy of each was submitted to concerned authorities. Proof of the same is attached herewith.</p> 
110	<p>It shall be mandatory for the project management to submit half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1st June and 1st December of each calendar year.</p>	<p><b>Complied.</b>  Unit is submitting the six monthly compliance report on a timely basis.</p>
111	<p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p><b>Noted.</b>  Unit assures that no False/Fabricated data has been submitted herewith.</p>
112	<p>The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.</p>	<p><b>Complied &amp; noted</b>  Unit is strictly complying with all the conditions stipulated in valid CC&amp;A.</p>



113	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<b>Noted.</b>
114	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<b>Complied.</b> Company is implementing these conditions in a time bound manner.
115	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Not Applicable as the Unit has not taken any loan from any bank. The project was self financed.
116	This environmental clearance is valid for seven years from the date of issue.	<b>Noted.</b>
117	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Noted.</b>
118	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	<b>Noted.</b> Unit assures that no False/Fabricated data has been submitted herewith.

**Environment Compliance Report of**

**EC File No. SEIAA/GUJ/EC/5(f)/1412/2019**

**Dated 04/11/2019**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019**

Sr. No:	Condition	Compliance																																																																																																																								
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A	CONDITIONS	Status
A.1	<b>SPECIFIC CONDITION</b>	
1	Unit shall provide adequate treatment to industrial effluent in such a way that no pollutant get air borne during evaporation in order to prevent adverse impact on Human Health and Environment.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
2	Unit shall obtained prior permission from PESO for storage and handling of hazardous chemical.	<b>Complied.</b> Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval. Please refer to the compliance of condition no. 12(a) of A.1 of EC File No.

		SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
3	Flame proof electrical fittings shall be provided in the plant premises, wherever applicable.	<b>Complied.</b> Necessary flameproof fittings are provided in production plants as per the hazardous area classification. Please refer to the compliance of condition no. 12(i) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
4	Leak Detection and Repair (LDAR) program shall be prepared and implemented as per the CPCB guidelines. LDAR Logbooks shall be maintained.	<b>Complied.</b> Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission. Unit is carrying out quarterly LDAR monitoring. Please refer to the compliance of condition no. 5 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
5	Unit shall explore the possibilities for environment friendly methods for disposal of Incinerable & land fillable wastes before sending to CHWIF/TSDF sites respectively.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as the most preferred mode of disposal wherever possible.
6	All measures shall be taken to prevent soil and ground water contamination	<b>Complied.</b> Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
7	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority.	<b>Complied</b> Unit is adhering to stipulations of Gujarat Pollution Control Board.
8	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16th November, 2009 shall be complied with.	<b>Complied.</b> Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory. All results are well within the prescribed limits. Please refer to the compliance of condition no. 7 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
9	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21/07/2010 and amended from time to time shall be followed.	<b>Complied.</b> The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37. Please refer to the compliance of condition no. 8 of A.1 of EC File No.

		SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
10	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same.	<b>Complied.</b> Unit is complying with the area specific policies of GPCB with respect to the discharge of pollutants.
<b>A.2</b>	<b>Water</b>	
11	Total water requirement for the project shall not exceed 811 KLD. Unit shall reuse 151 KLD Hence, fresh water requirement shall not exceed 660 KLD and it shall be met through GIDC water supply only. Prior permission from the concerned authority shall be obtained for withdrawal of water.	<b>Complied.</b> The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12	No ground water shall be tapped for the project requirements.	<b>Complied.</b> No groundwater is being tapped for utilization. The unit is only using water from GIDC.
13	The industrial effluent generation from the project shall not exceed 231 KLD.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14	The industrial effluent shall be segregated and treated as follows : Stream 1: High COD effluent (91 KLD from process) shall be treated in Fenton treatment followed by neutralization further treated effluent shall be fed into the MEE, Condensate from MEE shall be subjected to Soil Bio Technology (SBT) and treated effluent from SBT treatment shall be stored in treated water storage tank, while MEE Concentrate shall be treated in ATFD. Stream 2: Utility effluent (50 KLD from cooling and 10 KLD from washing) shall be subjected to equalization, neutralization & filtration followed by Soil Bio Technology (SBT) and treated effluent from SBT treatment shall be stored in treated water storage tank. Stream 3: 30 % HCL (80 KLD) from process shall be neutralized if not sold under Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. Neutralized effluent shall be further subjected to filtration and treated effluent after filtration shall be stored in a treated water storage tank.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 & 17 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
15	Treated effluent from treated water storage tank of all the above mentioned stream 1,2 & 3 shall be further treated in Sand Filter & Carbon Filter and finally discharged into	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 & 17 of

	NCTL pipeline of Jhagadia GIDC after achieving the norms of CPCB/GPCB/MoEF&CC.	A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. The treated effluent meeting the discharge norms sent to NCT-JPP pipeline for deep sea discharge.																				
16	Domestic sewage generation shall not exceed 28 KLD and it shall be treated in in-house STP and treated sewage shall be utilized in gardening (except monsoon) else in cooling tower (In monsoon).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
17	The unit shall provide metering facility at the inlet and outlets of the Fenton Treatment, MEE, SBT and STP and maintain records for the same.	<b>Complied.</b> Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
18	Proper logbooks of Fenton Treatment, MEE, SBT and STP, quantity & quality of effluent feed to Fenton Treatment, MEE, SBT and STP, power consumption etc. shall be maintained and shall be furnished to the GPCB from time to time.	<b>Complied.</b> Unit is maintaining proper logbooks of ETP, STP, recycle/ reuse of treated/ untreated effluent, chemical consumption in effluent treatment, quantity & quality of treated effluent, power consumption. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.																				
A.3	<b>Air</b>																					
19	Unit shall not exceed fuel consumption for DG Sets (Stand by) as mentioned below: <table border="1" data-bbox="235 1199 894 1325"> <thead> <tr> <th>Sr. no.</th> <th>Source of emission With Capacity</th> <th>Stack Height (meter)</th> <th>Type of Fuel</th> <th>Quantity of Fuel MT/Day</th> <th>Type of emissions i.e. Air Pollutants</th> <th>Air Pollution Control Measures (APCM)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D.G. Set (Standby) (2 Nos.) Capacity= 1500 KVA (Each)</td> <td>30</td> <td>Diesel</td> <td>660 Liter/Hr.</td> <td>PM SO<sub>2</sub> NO<sub>x</sub></td> <td>Adequate stack height + Acoustic Enclosure</td> </tr> </tbody> </table>	Sr. no.	Source of emission With Capacity	Stack Height (meter)	Type of Fuel	Quantity of Fuel MT/Day	Type of emissions i.e. Air Pollutants	Air Pollution Control Measures (APCM)	1	D.G. Set (Standby) (2 Nos.) Capacity= 1500 KVA (Each)	30	Diesel	660 Liter/Hr.	PM SO <sub>2</sub> NO <sub>x</sub>	Adequate stack height + Acoustic Enclosure	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.						
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20	Unit shall provide adequate APCM with flue gas generation sources as mentioned above:	<b>Complied.</b> Unit has provided adequate APCMs in the existing flue gas generation sources & is achieving the norms as per standards mentioned in CC&A.																				
21	Unit shall provide adequate APCM with process gas generation sources as mentioned below: <table border="1" data-bbox="235 1598 889 1780"> <thead> <tr> <th>Sr. no.</th> <th>Specific Source of emission (Name of the Product &amp; Process)</th> <th>Type of emission</th> <th>Stack/Vent Height (meter)</th> <th>Air Pollution Control Measures (APCM)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Scrubber connected to Nitration Reactors</td> <td>NO<sub>x</sub>: 25 Mg/Nm<sup>3</sup></td> <td>11</td> <td>Two stage Alkali Scrubber</td> </tr> <tr> <td>2.</td> <td>Scrubber connected to Chlorination Reactor</td> <td>HCl: 20 Mg/Nm<sup>3</sup></td> <td>11</td> <td>Water scrubber followed by Alkali Scrubber</td> </tr> <tr> <td>3.</td> <td>PSA Absorber</td> <td>VOC</td> <td>26</td> <td>Water scrubber</td> </tr> </tbody> </table>	Sr. no.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)	1.	Scrubber connected to Nitration Reactors	NO <sub>x</sub> : 25 Mg/Nm <sup>3</sup>	11	Two stage Alkali Scrubber	2.	Scrubber connected to Chlorination Reactor	HCl: 20 Mg/Nm <sup>3</sup>	11	Water scrubber followed by Alkali Scrubber	3.	PSA Absorber	VOC	26	Water scrubber	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. Unit has provided adequate APCMs in the existing process gas generation sources & is achieving the norms as per standards mentioned in CC&A.
Sr. no.	Specific Source of emission (Name of the Product & Process)	Type of emission	Stack/Vent Height (meter)	Air Pollution Control Measures (APCM)																		
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3.	PSA Absorber	VOC	26	Water scrubber																		
22	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards	<b>Complied.</b> Please refer to the compliance of condition no. 26																				

	<p>prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety &amp; Health). Following indicative guidelines shall also be followed to reduce the fugitive emission.</p> <ul style="list-style-type: none"> <li>&gt; Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement</li> <li>&gt; Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.</li> <li>&gt; A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</li> </ul>	<p>of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
23	<p>Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.</p>	<p><b>Complied.</b> The unit is conducting regular monitoring of Volatile Organic Compounds and records are maintained in Form No. 37. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
24	<p>For control of fugitive emission, VOCs, following steps shall be followed :</p> <ol style="list-style-type: none"> <li>a. Closed handling and charging system shall be provided for chemicals</li> <li>b. Reflux condenser shall be provided over Reactors / Vessels.</li> <li>c. Pumps shall be provided with mechanical seals to prevent leakages.</li> <li>d. Air borne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosures.</li> </ol>	<p><b>Complied.</b> Please refer to the compliance of condition no. 28 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
25	<p>Regular monitoring of ground level concentration of PM10, PM2.5 SO2, NOX, HCI and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by the GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB</p>	<p><b>Complied.</b> Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&amp;CC approved and NABL Accredited laboratory. All results are well within the prescribed limits. Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
26	<p>All the hazardous waste management shall be taken care as mentioned below:</p>	<p><b>Complied.</b> Unit is strictly complying with the regulatory norms &amp; maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous &amp; Other Waste</p>

Sr. no.	Type/Name of Hazardous waste	Specific Source of generation (Name of the Activity, Product etc.)	Category and Schedule as per HW Rules.	Quantity (MT/ Annum)	Management of HW
1.	ETP Waste	ETP Area	35.3	3103	Collection, Storage, Transportation, disposal to TSDF.
2.	MEE Salt	MEE	35.3	1825	Collection, Storage, Transportation, disposal to TSDF.

3.	Distillation Residue	Process Area	26.1	2700	Collection, Storage, transportation, disposal at Co-processing Incineration.
4.	Discarded containers/bags	RM & FG storage area	33.1	240	Collection, Storage, Decontamination, Disposal by sold to authorize recyclers.
5.	Used oil	Maintenance	5.1	6	Collection, Storage, Transportation, Disposal by selling to registered re-processors.
6.	Insulation Waste	Maintenance	--	24	Collection, Storage, Transportation disposal by at TSDF Site.
7.	Spent Carbon	ETP Area	26.3	60	Collection, Storage, transportation, sent for co-processing/incineration.
8.	Off Specification Product	Process Area	26.1	120	Collection, Storage, transportation, disposal at CHWIF.
9.	Hydrochloric Acid(HCl)	Process Area	B15	23276	Sold to end users having Rule-9 permission under Hazardous and other waste rules, 2016 or it will be neutralized and sent for treatment to ETP.
10.	Dil. Sulphuric Acid (70%)	From Nitration Group	26.3	66700	Sold to end users having Rule-9 permission under Hazardous and other waste rules, 2016 or it will be concentrated and reuse back in same product.
11.	Scrub Liquid	From NO <sub>x</sub> Scrubber	--	350 Klt/ Year	Collection, Storage and treated at in-house ETP.
12.	Spent Catalyst	From products of Chlorination process.	26.5	54	Collection, storage, transportation and sent for re-generation & reuse.

(Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

27

Authorized end-users shall have permissions from the concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.

**Complied.**

Please refer to the compliance of condition no. 31 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

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The project proponent shall allocate the separate fund of Rs. 267.6 Lakhs i.e. 1.5 % of the capital investment in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.

**Complied.**

The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

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All the recommendations, mitigation measures, environmental protection measures and safeguards proposed in the EIA report of the project prepared by M/s. Jyoti Om Chemical Research Centre Private Limited and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.

**Complied.**

All the recommendations / commitments made in the EIA report are being implemented.

B.

**General Conditions**



B.1	<b>CONSTRUCTION PHASE</b>	
30	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices.	<b>Complied.</b> Unit has adopted best construction practices to safeguard the water consumption & reduce the demand.
31	Project proponent shall ensure that surrounding environment shall not be affected due to construction activity. Construction materials shall be covered during transportation and regular water sprinkling shall be done in vulnerable areas for controlling fugitive emission.	<b>Complied.</b> All construction materials are transported through tarpaulin covered trucks only. Regular water sprinkling is being done to control fugitive emission of dust.
32	All required sanitary and hygienic measures shall be provided before starting the construction activities and to be maintained throughout the construction phase.	<b>Complied.</b> Adequate sanitary and hygienic measures has been provided at the site and will be maintained throughout the construction phase as per below: <ul style="list-style-type: none"> <li>• Clean up of jobsite after major tasks or at least daily;</li> <li>• Avoiding the build-up of hazardous, flammable, or combustible materials. Keeping walkways, stairs, and work areas clear.</li> <li>• Separate bathroom facilities are provided for male and female workers on a job site. Washing facilities on the site are provided for workers to wash their hands and avoid cross-contamination before eating, drinking or heading home for the day. Hence, workers can wash away harmful substances and use the washing area to service and decontaminate personal protective equipment (PPE).</li> </ul>
33	First Aid Box shall be made readily available in adequate quantity at all the times.	<b>Complied.</b> First Aid Boxes are available at prominent locations in adequate quantities.
34	The project proponent shall strictly comply with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments. Local bye-laws of concern authority shall be complied in letter and spirit.	<b>Complied.</b> The unit is strictly complying with the Building and other Construction Workers (Regulation of Employment & Conditions of Service) Act,1996 and Gujarat rules made there and their subsequent amendments.
35	Ambient noise levels shall conform to residential standards both during day and night. Incremental pollution load on the ambient air and noise quality shall be closely monitored during the construction phase.	<b>Complied.</b> Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory.

		Please refer to the compliance of condition no. 41 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36	Use of Diesel Generator (DG) sets during construction phase shall be strictly equipped with acoustic enclosure and shall conform to the EPA Rules for air and noise emission standards.	<b>Complied.</b> All the DG are provided with Acoustic Enclosures. Monthly Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 42 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37	Safe disposal of waste water and municipal solid wastes generated during the construction phase shall be ensured.	<b>Complied.</b> Unit is sending all the generated domestic effluent to a dedicated sewage treatment plant located in the unit for proper treatment and solid waste is being properly collected, segregated and disposed of on regular frequency.
38	All topsoil excavated during construction activity shall be used in horticultural / landscape development within the project site.	<b>Complied.</b> All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
39	Excavated earth to be generated during the construction phase shall be utilized within the premises to the maximum extent possible and balance quantity of excavated earth shall be disposed off with the approval of the competent authority after taking the necessary precautions for general safety and health aspects. Disposal of the excavated earth during the construction phase shall not create adverse effect on neighbouring communities.	<b>Complied.</b> All the top soil excavated during construction work is utilized in horticulture/ landscape development within the premises.
40	Project proponent shall ensure use of eco-friendly building materials including fly ash bricks, fly ash paver blocks, Ready Mix Concrete (RMC) and lead free paints in the project.	<b>Complied.</b> Unit is using fly ash bricks, fly ash paver blocks for the construction purpose.
41	Fly ash shall be used in construction wherever applicable as per provisions of Fly Ash Notification under the E.P. Act, 1986 and its subsequent amendments from time to time.	<b>Complied.</b> Unit is sending 100 % of fly ash generated from the plant to brick manufacturers. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2</b>	<b>Operation Phase</b>	
<b>B.2.1</b>	<b>Water:</b>	

42	The water meter shall be installed and records of daily and monthly water consumption shall be maintained.	<b>Complied.</b> Unit receives water from the GIDC water supply. Water meters are installed and records are maintained.
43	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT).The unit shall continuously strive to reduce, recycle and reuse the treated effluent.	<b>Complied.</b>
<b>B.2.2</b>	<b>Air:</b>	
44	In case of use of spray dryer, the unit shall provide the adequate & efficient APCMs with spray dryer so that there should not be any adverse impact on human health & environment. Unit shall carry out third party monitoring of the proposed Spray dryer & it's APCM through the credible institutes and study report for impacts on Environment and Human Health shall be submitted to GPCB every year along with half yearly compliance report.	<b>Not Applicable</b> as the unit has not installed spray dryer. Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in valid CC&A.
45	Acoustic enclosure shall be provided to the DG sets (if applicable) to mitigate the noise pollution and shall conform to the EPA Rules for air and noise emission standards.	<b>Complied.</b> The unit has provided acoustic enclosure to all the DG Set to mitigate the noise pollution.
46	Stack/vents (Whichever is applicable) of adequate height shall be provided as per the prevailing norms for flue gas emission/Process gas emission.	<b>Complied.</b> The Unit has installed adequate & efficient air pollution control systems at other process vent & utility stack outlets to achieve the norms prescribed in valid CC&A.
47	Flue gas emission & Process gas emission (if any) shall conform to the standards prescribed by the GPCB/CPCB/MOEF&CC. At no time, emission level should go beyond the stipulated standards.	<b>Complied.</b> Unit is following the norms for flue gas & process gas emission as per valid CC&A. The unit is carrying out stack analysis by a MoEF&CC recognised & NABL accredited laboratory. All results are well within the prescribed limits.
48	All the reactors / vessels used in the manufacturing process shall be closed to reduce the fugitive emission.	<b>Complied.</b> Closed handling and charging systems are provided for chemicals. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards. Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

<b>B.2.3</b>	<b>Hazardous Solid Waste:</b>	
49	The company shall strictly comply with the rules and regulations with regards to handling and disposal of Hazardous waste in accordance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB shall be obtained for collection / treatment / storage/ disposal of hazardous wastes.	<b>Complied.</b> Unit is strictly complying with the regulatory norms & maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time.
50	Hazardous wastes shall be dried, packed and stored in a separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	<b>Complied.</b> All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
51	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.( Whichever is applicable)	<b>Complied.</b> Unit has taken necessary permission from the nearby TSDF site and CHWIF.
52	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under.	<b>Complied.</b> Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
53	The design of the Trucks/tankers shall be such that there is no spillage during transportation	<b>Complied.</b>
54	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
55	Management of fly ash (if any) shall be as per the Fly ash Notification 2009 & its amendment from time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Complied.</b> 100% Fly ash is utilized by the authorized Brick manufacturer after having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2.4</b>	<b>Safety:</b>	
56	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	<b>Complied.</b> Unit has obtained a valid Factories License.

57	The project authorities shall strictly comply with the provisions made in Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended from time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	<b>Complied.</b> The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
58	Main entry and exit shall be separate and clearly marked in the facility.	<b>Complied.</b> Main entry and exit of plant premises are separate.
59	Sufficient peripheral open passage shall be kept in the margin area for free movement of fire tender/ emergency vehicle around the premises.	<b>Complied.</b>
60	Storage of flammable chemicals shall be sufficiently away from the production area.	<b>Complied.</b> Storage of flammable & hazardous chemicals is away from the production area.
61	Sufficient number of fire extinguishers shall be provided near the plant and storage area.	<b>Complied.</b> Fire extinguishers are provided near the plant and storage area for the emergency situation.
62	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	<b>Complied.</b> All measures are being taken to avoid any accidents. Mandatory use of appropriate PPEs is being done to ensure that no harm is caused to any worker/employee while handling toxic / hazardous chemicals.
63	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<b>Complied.</b> All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities.Maintaining the storage concept.
64	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<b>Complied.</b> Unit strictly comply with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
65	Only flameproof electrical fittings shall be provided in the plant premises.	<b>Complied.</b> Only flameproof electrical fittings are provided in the plant premises. Unit has carried out

		Hazardous area classification through an external competent agency i.e Vision Power Facts, Mumbai. Please refer to the compliance of condition no. 12 (j) of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
66	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	<b>Complied.</b> Maintaining the storage concept. Unit is not handling small containers like drums/carbouys. Most of our raw materials are handled through ISO tankers/ containers.
67	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<b>Complied.</b> <ul style="list-style-type: none"> <li>• Dyke walls have been provided for all storage tanks.</li> <li>• Closed loops systems to transfer the materials to avoid leakage/ spillage.</li> <li>• Level transmitter/Level gauge provided to hazardous chemical storage tanks to avoid overflow.</li> <li>• Breather valve/safety valve/flame arrestor provided to hazardous chemical storage tanks as appropriate.</li> <li>• Close monitoring through the DCS panel.</li> <li>• Maximum allowable storage level is 80% of total capacity.</li> <li>• Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.</li> </ul>
68	Handling and charging of the chemicals shall be done in a closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	<b>Complied.</b> Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.
69	Tie up shall be done with a nearby health care unit/ doctor for seeking immediate medical attention in the case of Emergency.	<b>Complied</b> Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
70	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	<b>Complied.</b> Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and

		necessary care is taken to assure strict usage of PPEs.
71	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<b>Complied</b> First Aid Box and required Antidotes for the chemicals used in the unit are made readily available in adequate quantity.
72	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<b>Complied.</b> Regular training is conducted to all the workers on safety and health aspects of Chemical handling. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
73	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and Periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	<b>Complied.</b> OHC is maintaining all the records & Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act & Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
74	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<b>Complied.</b> Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
75	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<b>Complied.</b> Unit has implemented all the mitigation and recommendations mentioned in the EIA report.
76	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	<b>Complied.</b> Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
<b>B.2.5</b>	<b>Noise:</b>	
77	The overall noise level in and around the plant area shall be kept well within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall conform to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<b>Complied.</b> Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106

		of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2.6</b>	<b>CLEANER PRODUCTION AND WASTE MINIMISATION:</b>	
78	The unit shall undertake the Cleaner Production Assessment study through a reputed institute / organization and shall form a CP team in the company. The recommendations thereof along with the compliance shall be furnished to the GPCB.	<b>Complied</b>
79	The company shall undertake various waste minimization measures such as : a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw materials substitutes. c. Use of automated and close filling to minimize spillages. d. Use of close feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for cleaning to reduce wastewater generation. g. Recycling of washes to subsequent batches. h. Recycling of steam condensate. i. Sweeping / mopping of floor instead of floor washing to avoid effluent generation. j. Regular preventive maintenance for avoiding leakage, spillage etc.	<b>Complied.</b> Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.2.7</b>	<b>GREEN BELT AND OTHER PLANTATION</b>	
80	The unit shall develop green belt within premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC/GPCB and submit an action plan of plantation for next three years to the GPCB.	<b>Complied.</b> The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
81	Drip irrigation / low-volume, low-angle sprinkler system shall be used for the green belt development within the premises.	<b>Complied.</b>
<b>B.3</b>	<b>OTHER CONDITION:</b>	
82	Unit shall comply all the applicable standard conditions prescribed in Office Memorandum (OM) published by	<b>Complied.</b>



	MoEF&CC vide no. F. No. 22-34/2018-IA.III dated 09/08/2018 for Pharmaceutical and Chemical industries mentioned at (Sr. no. XX).	
83	Rain water harvesting of surface as well as rooftop runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as to recharge ground water. Before recharging the surface run off, pre-treatment must be done to remove suspended matter.	<b>Complied.</b> Unit assures to provide rain water harvesting at all possible locations and shall reuse the water after pre-treatment.
84	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the Industrial Association or GIDC or GPCB or any such authority created for this purpose by the Govt. / GIDC.	<b>Complied.</b> Unit will join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.
85	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	<b>Complied.</b> Unit ensures to use solar energy.
86	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	<b>Complied.</b> Dedicated green belt area is embarked for plantation.
87	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
88	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
89	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	<b>Complied.</b> Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.

90	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory authority.	<b>Noted &amp; Complied</b> Unit is strictly complying with all the conditions stipulated in valid CC&A.
91	During material transfer there shall be no spillages and garland drain shall be constructed to avoid mixing of accidental spillages with domestic wastewater or storm water.	<b>Complied.</b> Unit has provided a garland drain to avoid spillage mixing with stormwater.
92	Pucca flooring / impervious layer shall be provided in the work areas, chemical storage areas and chemical handling areas to minimize soil contamination.	<b>Complied.</b> Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
93	Leakages from pipes, pumps shall be minimal and if occurs, shall be arrested promptly.	<b>Complied.</b> Unit is using only mechanical seal pumps in order to avoid the leakages.
94	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without obtaining prior Environment Clearance from the concerned authority.	<b>Noted.</b>
95	In the above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	<b>Complied.</b> Unit assures to comply with all the requirements as per the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.
96	The project proponent shall comply with all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<b>Complied.</b> The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
97	The project management shall ensure that the unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponents.	<b>Complied.</b> Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.
98	The project authorities shall earmark adequate funds to implement the conditions stipulated by SEJAA as well as GPCB along with the implementation schedule for all the	<b>Complied</b>

conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the Website of SEIAA/SEAC/ GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.


99

**Complied.**

Unit has informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB.

Advertisement was published in Times of India (in English) and Sandesh (in Gujarati) on 09<sup>th</sup> November 2019. Proof of the same are attached herewith



		
100	<p>It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in soft copies to the regulatory authority concerned, on 1<sup>st</sup> June and 1<sup>st</sup> December of each calendar year.</p>	<p><b>Complied.</b> Unit is submitting the six monthly compliance report on a timely basis.</p>
101	<p>Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.</p>	<p><b>Noted.</b> Unit assures that no False/Fabricated data has been submitted herewith.</p>
102	<p>The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.</p>	<p><b>Complied &amp; noted</b> Unit is strictly complying with all the conditions stipulated in valid CC&amp;A.</p>
103	<p>The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.</p>	<p><b>Noted.</b></p>
104	<p>The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.</p>	<p><b>Complied.</b> Company is implementing these conditions in a time bound manner.</p>
105	<p>The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.</p>	<p>Not Applicable as the Unit has not taken any loan from any bank. The project was self financed.</p>

106	This environmental clearance is valid for seven years from the date of issue.	<b>Noted.</b>
107	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	<b>Noted.</b>
108	Submission of any false or misleading information or data which is material to screening or scoping or appraisal or decision on the application makes this environment clearance canceled.	<b>Noted.</b> Unit assures that no False/Fabricated data has been submitted herewith.

**Environment Compliance Report of**

**EC File No.SEIAA/GUJ/EC/5(f)/101/2020**

**Dated 05/02/2020**

Environment Clearance Compliance report for period October 23 to March 24

File No.: SEIAA/GUJ/EC/5(f)/101/2020 dated 05/02/2020

Sr. No:	Condition	Compliance
1	<p>In continuation to the Environment Clearance accorded by the SEIAA vide order no. SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019; we have received your application vide No. SIA/GJ/IND2/125216/2019 seeking correction in typographic error. In this regard kindly note below.</p> <p>Correction No. 1 – The plot No. shall be read as "778" instead of "758/1-2-3".</p> <p>Rest of the condition of order no. SEIAA/GUJ/EC/5(f)/1412/2019 dated 04/11/2019 will remain unchanged.</p>	Noted.

**Environment Compliance Report of  
EC File No.SEIAA/GUJ/EC/5(f)/335/2016,  
Dated: 20/05/2016**



**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/335/2016, Dated: 20/05/2016**

Sr. No.	Name of Product	Capacity MT/Month	Compliance
1	Hydrogen Gas	3000 NM <sup>3</sup> /Hr	<p><b>Complied.</b></p> <p>Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022.</p> <p>The production quantity is well within the permitted capacity.</p>
2	Purification of O/P/M Phenylene Di Amine	1500	
3	Calcium Chloride	6000	
<b>I</b>	<b>Chlorination Products</b>		
1	Mono Chloro Benzene/Ortho Dichloro Benzene/Para Dichloro Benzene	6000	<p><b>Complied.</b></p> <p>Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022.</p> <p>The production quantity is well within the permitted capacity.</p>
2	1,2,3,1,2,4 Tri Chloro Benzene OR		
3	Ortho Chloro Toluene / Para Chloro Toluene OR		
4	2-Chloro 4-Nitro Toluene OR		
5	6-Chloro 2-NitroToluene OR 4-Chloro 2-Nitro Toluene OR		
6	Pivalyl Chloride OR		
7	2-Ethyl Hexanyl Chloride Or		
8	Iso Nonyl Chloride OR		
9	2,4,6 Trichloro Aniline (TCAN) OR		
<b>II</b>	<b>Hydrogenated Products</b>		
1	Ortho Toludene OR	3000	<p><b>Complied.</b></p> <p>Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022.</p> <p>The production quantity is well within the permitted capacity.</p>
2	Meta/Ortho/Para Chloro Aniline OR		
3	3,4 DiChloro Aniline/ 2,3 DiChloro Aniline/ 2,5 DiChloro Aniline OR		
4	2,4 Dichloro Aniline/ 2,6 DiChloro Aniline/ 3,5 DiChloro Aniline OR		
5	2,4,5 Trichloroaniline OR		

6	Meta/ Ortho/ Para Phenylene Di Amine OR		
7	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl Ether OR		
8	Ortho/Para/MetaAnisidine OR		
9	Chloro Fluoro Aniline OR		
10	Ortho/Para/Meta Cumidine OR		
11	Para/Meta Amino Phenol OR		
12	Toluidines OR		
13	Aniline OR		
14	Para/ Meta/ Ortho Fluoro Aniline OR		
15	Di Fluoro Aniline (1:3) OR		
16	Di Fluoro Benzene (1:3) OR		
17	4-Fluoro-N-Isopropyl Aniline OR		
18	4-Chloro-NIsopropyl Aniline OR		
19	2 Methoxy 4 NitroAniline (Scarlet R - from partial hydrogenation of 24 DinitroAnisole) OR		
20	2,4 Di Amino Anisole		
21	N-N Disec Butyl PPDA OR		
22	Meta Xylidine OR		
23	4 Chloro 25 Dimethoxy Aniline OR		
24	N,N Di Sec butyl paraphenylene Diamine		
<b>III</b>	<b>Nitration Products</b>		
1	3,4 Di Chloro Nitro Benzene/ 2,5 DiChloro Nitrobenzene/2,3 DiChloro Nitrobenzene OR	2000	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	2,4,5 Tri Chloro Nitro Benzene/2,3,4 Tri Chloro Nitro Benzene OR		
3	4-Nitro N-methyl Phtha-limide OR		

4	2EHN (Ethyl Hexanol Nitration) OR		
<b>IV Nitro Anisole</b>			
1	Ortho Nitro Anisole OR	1200	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	Para Nitro Anisole OR		
3	2,4-Di Nitro Anisole OR		
4	2, Methoxy 5 Chloro Nitro Benzene (from 2,5 DCNB)		
<b>VI Di Nitro Chlorination</b>			
1	2,6 Dichloro Floro Benzene	1200	Presently the unit is having Partial CC&A. Unit is yet to apply for CC&A Amendment for these products
2	2,6 Dichloro Benzonitrile		
3	Meta Dichlorobenzene		
4	2,4 Difluoro Chloro Benzene		
5	2,4 DiChloro Fluoro Benzene		
6	1,3 Dichloro 4,6 Difluorobenzene		
7	Para Fluoro Chloro Benzene		
8	Ortho Fluoro Chloro Benzene		
<b>BY PRODUCTS</b>			
1	Steam (By-Product)	136.56 KL/Day	<b>Complied.</b> Please refer production details as mentioned in the EC compliance report of EC file No. SEIAA/GUJ/EC/5(f)/1470/2022. The production quantity is well within the permitted capacity.
2	Sodium Chloride	2069	<b>Complied.</b> As per EC No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue: 30/05/2022, Sodium Chloride and Ortho Nitro Phenol (ONP) are removed from the By-product list. Presently the unit is having partial CCA for Sodium Chloride and yet to apply for

3	Ortho Nitro Phenol	41	Ortho Nitro Phenol (ONP). However, both are not being generated at present.
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Sr. No.	CONDITIONS	COMPLIANCE
A.	<b>CONDITIONS:</b>	
<b>A.1 SPECIFIC CONDITION:</b>		
1.	Entire quantity of (1) Sodium Chloride [2069 MT/Month] and (2) Ortho Nitro Phenol [41 MT/Month] shall be sell out to the actual end users.	<b>Complied.</b> As per EC No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of issue: 30/05/2022, Sodium Chloride and Ortho Nitro Phenol (ONP) are removed from the By-product list. Presently the unit is having partial CCA for Sodium Chloride and yet to apply for Ortho Nitro Phenol (ONP). However, both are not being generated at present. Unit will sell the entire quantity of Sodium Chloride and Ortho Nitro Phenol once generated with proper MoU by manifest system through dedicated Hazardous waste vehicle with Active GPS system.
2.	Spent HCL - 30% (12106 MT/Month) shall be utilized as captive consumption for the manufacturing of Calcium Chloride to the maximum extent and if need arises, excess Spent HCl - 30% shall be sold to the authorized actual end users.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
3.	Spent Sulphuric Acid - 72% (775 MT/Month) shall be sold to the authorized actual end users.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
4.	Unit shall strive to exploring utilization of spent sulphuric acid by converting it into the valuable products within the premises.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
5.	Above mentioned items/wastes streams qualifying the Hazardous & Other Waste (Management and Transboundary	<b>Complied.</b> The stated condition has been amended. Hazardous waste is managed by the unit in accordance with the compliance

	Movement) Rules 2016 shall only be sold after obtaining prior permission from CPCB/SPCB/PCC.	of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
6.	The unit shall install & commission the spent acid concentration plant II proposed at organic division before commencement of production.	<b>Complied.</b> The stated condition has been amended. Hazardous waste is managed by the unit in accordance with the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
7.	The above mentioned By-product/hazardous wastes shall be sold only to the potential users who are authorized by the competent authority (MoEF/CPCB/SPCB etc.)	<b>Complied.</b> Hazardous waste is managed by the unit in accordance with the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
8.	The unit shall submit the list of authorized end users of above mentioned by-products/hazardous wastes along with MoU signed with them for at least two months in advance prior to commencement of production. In absence of potential buyers of these items the unit shall restrict the production of respective item.	<b>Complied.</b> Please refer to the compliance of condition no. 78 of B.2.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
9.	The schedule of the production activity shall be in such a way that there shall be no increase in pollution load with respect of air, water and hazardous waste as proposed in the EIA-EMP report.	<b>Complied.</b> Unit ensures the schedule of the production activity in such a way that there is no increase in pollution load with respect to air, water and hazardous waste as approved in EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. <ul style="list-style-type: none"> <li>• Water consumption is under permissible limits.</li> <li>• Ambient Air Monitoring is being done weekly twice.</li> <li>• All process stacks and Flue gas stacks are analyzed monthly once by an external monitoring agency approved by NABL.</li> <li>• Noise Analysis is done monthly once.</li> <li>• Hazardous waste generation is within permissible limits.</li> </ul>
10.	Spent solvents shall be recovered by	<b>Complied</b>

	in-house distillation in such a manner that recovery shall not be less than 98 percent and recovered solvent shall be reused in the process. Solvent recovery system with adequate reflux condensers shall be provided for controlling escape of low boiling solvents (VOCs).	Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible.
11.	All measures shall be taken to prevent soil and groundwater contamination.	<b>Complied.</b> Please refer to the compliance of condition no. 10 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
12.	The project proponent shall submit the detailed study report to Gujarat Pollution Control Board (GPCB) at least once in a year, through the reputed institute or university to assess the impacts on soil and ground water quality, if any, due to application of the treated sewage and shall adopt the additional mitigation measures as may be suggested through such studies.	<b>Complied</b> Unit has conducted m/s. Sarvajanik College of Engineering and Technology for the evaluation of the ETP Performance and adequacy. However, the stated condition is not included in amended EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>A.2 WATER:</b>		
13.	Total water consumption for proposed expansion shall not exceed 2417 KL/Day. Unit shall reuse recovered water to the tune of 668 KL/Day. Hence, fresh water requirement for the proposed expansion shall not exceed 1749 KL/Day.	<b>Complied.</b> The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
14.	The additional fresh water shall be sourced from GIDC. The water meter shall be installed and records of daily and monthly water consumption shall be maintained. No ground water shall be tapped for the project requirements in any case.	<b>Complied.</b> The stated condition has been amended. Water Consumption is consumed by the unit in accordance with the compliance of condition no. 13 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.  No groundwater is being tapped for utilization. The unit is only using water from GIDC.
15.	Total Industrial waste water generation after proposed expansion shall not exceed 408.336 KL/Day (Existing 33.336 KL + 375 KL)	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
16.	Effluent generated from the existing unit	<b>Complied.</b>

	shall be treated in provided RO system [100 KL/day], Evaporator [2 KL/day], Tube settler [5 KL/day] and Nutch Filter [0.5 KL/day].	The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
17.	Additional waste water generated from the proposed expansion shall be treated in proposed facility comprising primary, secondary, tertiary treatment plants, RO plants and MEE (Capacity : 70 KL/day) to achieve zero discharge.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 15 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
18.	Total 168 KL/Day of effluent from process & washing shall be treated in ETP followed by RO-2, RO-4 & MEE.	<b>Complied.</b> The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 & 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
19.	Total 207 KL/day effluent from utilities shall be treated in RO-3, RO-4 and MEE.	<b>Complied.</b> The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 & 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
20.	Unit shall recycle recovered water to the tune of 668 KL/day (298.28 KL from existing and 369.72 KL from proposed expansion).	<b>Complied.</b> The stated condition has been amended. Industrial effluent is managed by the unit in accordance with the compliance of condition no. 16, 17 & 18 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
21.	Total domestic waste water of 38 KL/day shall be treated in proposed STP (Capacity : 40 KL/day) and shall be utilized for gardening/plantation within premises.	<b>Complied.</b> The stated condition has been amended. Domestic wastewater is managed by the unit in accordance with the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
22.	The treated domestic effluent conforming to the MoEF/CPCB/GPCB norms shall be utilized on land within premises for plantation/ Gardening/ Green Belt. During monsoon season when treated effluent may not be required for the plantation/ Gardening / Green belt purpose, it shall be stored within premises & there shall be no discharge of wastewater outside the premises in any case.	<b>Complied.</b> Treated domestic wastewater is managed by the unit in accordance with the compliance of condition no. 20 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

23.	The unit shall provide flow meter / totalizer for measuring effluent treated & reuse and maintain daily records of the same.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
24.	Proper Logbook of the ETP, RO, MEE & STP operation, effluent quality and quantity, chemical & power consumption etc. shall be maintained and shall be furnished to GPCB from time to time.	<b>Complied.</b> Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
25.	No effluent from the plant shall be discharged outside the factory premises and process effluent/any wastewater shall not be allowed to mix with storm water.	<b>Complied.</b> Please refer to the compliance of condition no. 17 & 20 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
26.	The unit shall provide metering facility at the inlet and outlet of the Effluent treatment Plant, RO system, MEE plant & STP and maintain the records of the same.	<b>Complied.</b> Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
27.	Regular performance evaluation of the ETP shall be undertaken every year to check its adequacy, through a reputed institute / organization and its records shall be maintained.	<b>Complied.</b> Unit has conducted m/s. Sarvajanik College of Engineering and Technology for the evaluation of the ETP Performance and adequacy. However, the stated condition is not included in amended EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
28.	The unit shall join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.	<b>Complied.</b> Unit will join and participate financially and technically for any common environmental facility / infrastructure as and when the same is taken up either by the GIDC or GPCB or any such authority created for this purpose by the Government / GIDC.
<b>A.3 AIR:</b>		
29.	Imported coal to the tune of 11.02 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
30.	Imported coal to the tune of 14.57 MT/hr shall be used as a fuel for CaCl <sub>2</sub> dryer.	<b>Complied.</b> The stated condition has been amended. Please refer to the



		compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
31.	Unit shall provide separate ESP as APCM for each Boiler.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
32.	Unit shall provide Wet scrubber as CaCl <sub>2</sub> dryer vent.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
33.	Unit shall provide separate set of falling film absorber followed by Alkali Scrubber to control emission of HCl from CaCO <sub>3</sub> reactor vent and to control emission of HCl & Cl <sub>2</sub> from Chlorinator vent.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
34.	Unit shall provide caustic scrubber to control emission of NO <sub>x</sub> from Nitration vent.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
35.	Diesel to the tune of 850 Lit./hr shall be used for existing DG sets (650 KVA * 2 Nos and 750 KVA * 3 Nos).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
36.	Diesel to the tune of 1080 Lit./hr shall be used for the proposed 4 nos of DG sets (Cap. 1000 KVA each).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
37.	Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	<b>Complied.</b> The unit has provided Acoustic enclosure to all the DG Set to mitigate the noise pollution.
38.	Flue gas emissions from Boilers, DG set & any gaseous emissions shall conform to the standards prescribed by the GPCB/CPCB/MoEF&CC. At no time, emission level should go beyond the stipulated standards.	<b>Complied.</b> Please refer to the compliance of condition no. 23 & 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
39.	The air pollution system shall be operated efficiently and effectively to achieve the norms prescribed by the	<b>Complied.</b>

	GPCB/CPCB/MoEF&CC at vent / stack outlets.	Unit has provided adequate APCMs in the existing process gas generation sources & is achieving norms as per standards mentioned in CC&A.
40.	Third party monitoring of the functioning of Air APCMs with its efficiency shall be carried out once in a year through a reputed Institute / organization.	<b>Complied.</b> Unit has provided adequate APCMs in the existing flue gas & process gas generation sources & is achieving the norms as per standards mentioned in CC&A. Please refer to the compliance of condition no. 23 & 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. All Analysis results are well within limits. Hence, the efficiency of APCM is good.
41.	The company shall prepare schedule and carry out regular preventive maintenance of APCMs and assign responsibility of preventive maintenance to the senior officer of the company.	<b>Complied.</b> Unit has a proper schedule for preventive maintenance of APCMs. According to the schedule, preventive maintenance is carried out regularly.
42.	The fugitive emission in the work zone environment shall be monitored. The emission shall conform to the standards prescribed by the concerned authorities from time to time (e.g. Directors of Industrial Safety & Health). Following indicative guidelines shall also be followed to reduce the fugitive emission. <ul style="list-style-type: none"> <li>➤ Enclosure shall be provided at Bio-fuel loading and unloading operations.</li> <li>➤ Internal roads shall be either concreted or asphalted or paved properly to reduce the fugitive emission during vehicular movement.</li> <li>➤ Air borne dust shall be controlled with water sprinklers at suitable locations in the plant.</li> <li>➤ Bio-fuel shall be transported through covered trucks only whereas fly ash shall be transported through closed trucks only.</li> <li>➤ A green belt shall be developed all around the plant boundary and also along the roads to mitigate fugitive &amp; transport dust emission.</li> </ul>	<b>Complied.</b> Please refer to the compliance of condition no. 26 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
43.	All the vessels used in the manufacturing process shall be closed to reduce the	<b>Complied.</b> Please refer to the compliance of condition no. 28 of A.3 of

	fugitive emission.	EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
44.	Regular performance evaluation of the air pollution control systems shall be carried out at least once in a year through a reputed Institute / organization and its records shall be maintained.	<b>Complied.</b> Unit has provided adequate APCMs in the existing flue gas & process gas generation sources & is achieving the norms as per standards mentioned in CC&A. Please refer to the compliance of condition no. 23 & 25 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022. All Analysis results are well within limits. Hence, the efficiency of APCM is good.
45.	Measures shall be taken to reduce the process vapour emissions as far as possible. Use of toxic solvents shall be minimum. All venting equipment shall have a vapour recovery system.	<b>Complied</b> Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible. Unit is doing nitrogen blanketing for reduction of emission of toxic VOC as well as the unit will also provide vent condensers for maximum recovery of VOC.
46.	All the vessels used in the manufacturing process shall be close to reduce the fugitive emission.	<b>Complied.</b> All vessels used in the manufacturing process are closed. Unit is monitoring the fugitive emission in the work zone as per the prescribed standards.
47.	Solvent management shall be carried out as follows:  1. Reactor shall be connected to chilled brine condenser system to condensate solvent vapors and reduce solvent losses. 2. Reactor and solvent handling pump shall have mechanical seals to prevent leakages. 3. The condensers shall be provided with sufficient HTA and residence time so as to achieve more than 95% solvent recovery. 4. Solvents shall be stored in a separate space specified with all safety measures. 5. Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.	<b>Complied</b> Solvent recovery systems with adequate reflux condensers are provided for controlling escape of low boiling solvents (VOCs). Recovered solvents are being used in the process to the extent possible. Unit assures to comply all the design strictly followed for  1. Reduction of solvent losses by providing vent chillers. 2. All the solvent handling pumps are with mechanical seals for reduction of leakages during pumping. 3. Unit will follow standard design as per code for maintaining the recovery above 95% in all solvent recovery. 4. Unit assure you that Unit will follow all the guidelines as per PESO for storage and handling of solvents. 5. Unit will provide earthing to all solvent handling equipment as well and piping as per standard and maintain records of it for healthiness. 6. Unit has provided flameproof fittings and system for the entire plant and solvent storage with breather valve provision.

	6. Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.	
48.	Regular monitoring of Volatile Organic Compounds (VOCs) shall be carried out in the work zone area and ambient air.	<b>Complied.</b> Please refer to the compliance of condition no. 27 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
49.	For control of fugitive emission, VOCs, following steps shall be followed: a. Closed handling and charging system shall be provided for chemicals. b. Reflux condenser shall be provided over Reactors / Vessels. c. Pumps shall be provided with mechanical seals to prevent leakages. d. System of leak detection and repair of pump/pipeline based on preventive maintenance.	<b>Complied.</b> Please refer to the compliance of condition no. 28 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
50.	Airborne dust at all transfers operations/ points shall be controlled either by spraying water or providing enclosure.	<b>Complied.</b> Water sprinklers in the Coal storage yard and ash handling system are provided to avoid dusting.
51.	System of leak detection and repair of pump/pipeline based on preventive maintenance.	<b>Complied.</b> Unit is adhering to internal guidelines for LDAR prepared based on the MoEF notification G.S.R.186 (E): Fugitive emission. Unit is carrying out quarterly LDAR monitoring. Please refer to the compliance of condition no. 5 of A.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
52.	Regular monitoring of ground level concentration of SO <sub>2</sub> , NO <sub>x</sub> , PM <sub>10</sub> , PM <sub>2.5</sub> , HCl, CL <sub>2</sub> , HC and VOC shall be carried out in the impact zone and its records shall be maintained. Ambient air quality levels shall not exceed the standards stipulated by GPCB. If at any stage these levels are found to exceed the prescribed limits, necessary additional control measures shall be taken immediately. The location of the stations and frequency of monitoring shall be decided in consultation with the GPCB.	<b>Complied.</b> Unit is carrying out Ambient Air monitoring as per the National Ambient Air Quality Standards (NAAQS) covering all the parameters at upwind and downwind location (at 3 specific locations) by a MoEF&CC approved and NABL Accredited laboratory. All results are well within the prescribed limits. Please refer to the compliance of condition no. 29 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

<b>A.4 SOLID/HAZARDOUS WASTE:</b>		
53.	The company shall strictly comply with the rules and regulation with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Authorization of the GPCB must be obtained for collection / treatment / storage / disposal of hazardous wastes.	<b>Complied.</b> Unit is strictly complying with the regulatory norms & maintaining the records with regards to handling and disposal of Hazardous waste in accordance with the Hazardous & Other Waste (Management and Transboundary Movement) Rules 2016, as may be amended from time to time. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
54.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility before its disposal.	<b>Complied.</b> All the hazardous waste is stored in the designated storage area with a pucca bottom and proper leachate collection facility.
55.	Silica and Insulation waste shall be disposed off at the nearby common TSDF	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
56.	Spent catalyst shall be sale out to registered regenerators.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
57.	Process residue and Distillation residue shall be sent to Common Hazardous Waste Incineration Facility (CHWIF).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
58.	Discarded barrels / containers / bags / liners shall be either reused or returned back to suppliers or solid only to the authorized vendors after decontamination.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
59.	Used oil shall be sold only to the registered recyclers.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

60.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF.	<b>Complied.</b> Please refer to the compliance of condition no. 71 of B.2.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
61.	Vehicles used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988 and rules made there under.	<b>Complied.</b> Unit is following the Motor Vehicle Act, 1988 and rules for the vehicles transporting hazardous waste. Waste is sent by Manifest System through Dedicated Hazardous waste vehicle with Active GPS system.
62.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	<b>Complied.</b> Unit is already following the co-processing of hazardous waste as a mode of disposal wherever possible.
63.	The fly ash shall be supplied to the manufacturers of fly ash based products such as cement, concrete blocks, bricks, panels,etc. The unit shall strictly comply with the Fly Ash Notification under EPA and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	<b>Complied</b> 100% Fly ash supplied only to the authorized brick manufacturers having proper MoU with them. Please refer to the compliance of condition no. 47 of B.1 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>A.5 SAFETY:</b>		
64.	The company shall strictly comply with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.	<b>Complied.</b> The company is strictly complying with the rules and regulations under Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended.
65.	The project authority shall strictly comply with the provisions made in Manufacture, Storage and Impact of Hazardous Chemicals Rules, 1989 as amended in 2000 and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosive and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off-site Disaster Management Plans have to be prepared and implemented.	<b>Complied</b> Please refer to the compliance of condition no. 81 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

66.	Storage of flammable chemicals shall be sufficiently away from the production area.	<b>Complied.</b> Dedicated storage facility of flammable chemicals provided at safer distance from production area as per PESO approval.
67.	Sufficient no. of fire extinguishers shall be provided near the plant and storage area.	<b>Complied.</b> Sufficient no. of fire hydrant system and extinguishers are provided near the plant and storage area.
68.	All necessary precautionary measures shall be taken to avoid any kind of accident during storage and handling of toxic / hazardous chemicals.	<b>Complied.</b> All necessary precautionary measures are taken to avoid any kind of accident during storage and handling of toxic/hazardous chemicals. HAZOP and Risk assessment system is in place. Induction/Refresher/specific training system is carried out on a regular basis for all employees. Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.
69.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this regard shall be obtained before commencing the expansion activities.	<b>Complied.</b> All the toxic/hazardous chemicals are stored in optimum quantity and all necessary permissions in this regard are obtained before commencing the expansion activities. Maintaining the storage concept.
70.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	<b>Complied.</b> Unit strictly comply with all the mitigation measures and safeguards that are suggested in the Risk Assessment report.
71.	Only flameproof electrical fittings shall be provided in the plant premises.	<b>Complied.</b> Only flameproof electrical fittings are provided in the plant premises. Please refer to the compliance of condition no. 89 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
72.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	<b>Complied.</b> Unit is ensuring minimum storage of hazardous chemicals. Most of our raw materials are handled through small capacity tanks/containers.

73.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous Chemicals.	<p><b>Complied.</b></p> <ul style="list-style-type: none"> <li>• Dyke walls have been provided for all storage tanks.</li> <li>• Closed loops systems to transfer the materials to avoid leakage/ spillage.</li> <li>• Level transmitter/Level gauge provided to hazardous chemical storage tanks to avoid overflow.</li> <li>• Breather valve/safety valve/flame arrestor provided to hazardous chemical storage tanks as appropriate.</li> <li>• Close monitoring through the DCS panel.</li> <li>• Maximum allowable storage level is 80% of total capacity.</li> <li>• Hazardous chemical storage areas are fenced properly to avoid unauthorized entry.</li> </ul>
74.	Handling and charging of the chemicals shall be done in closed manner by pumping or vacuum transfer so that minimal human exposure occurs.	<p><b>Complied.</b></p> <p>Unit strictly follows all the standards for handling and pumping or vacuum transfer of chemicals for reduction of human exposure.</p>
75.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	<p><b>Complied</b></p> <p>Yes Unit has tie up with nearby health care units. (Jayaben Modi Hospital, 32 Kms) Please refer to the compliance of condition no. 93 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
76.	Personal Protective Equipments shall be provided to workers and its usage shall be ensured and supervised.	<p><b>Complied.</b></p> <p>Sufficient PPE like Helmet, Goggles, Safety Belt, Ear Plug, PVC Apron, Dust Mask, Rubber Gloves etc has been provided to all the workers and necessary care is taken to assure strict usage of PPEs.</p>
77.	First Aid Box and required Antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	<p><b>Complied</b></p> <p>First Aid Box and required Antidotes for the chemicals used in the unit are made readily available in adequate quantity.</p>
78.	Training shall be imparted to all the workers on safety and health aspects of chemicals handling.	<p><b>Complied.</b></p> <p>Regular training is conducted to all the workers on safety and health aspects of Chemical handling. Please refer to the compliance of condition no. 97 of B.2.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
79.	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre-employment and periodical medical examination for all the workers shall be undertaken as per the	<p><b>Complied.</b></p> <p>OHC is maintaining all the records &amp; Pre-employment and periodical medical examinations for all the workers are done as per the Factories Act &amp; Rules. Please refer to the compliance of condition no. 98 of B.2.4 of EC File No.</p>



	Factory Acts & Rules.	SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
80.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	<b>Complied.</b> Transportation of hazardous chemicals is being done as per the provisions of the Motor Vehicle Act.
81.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	<b>Complied.</b> Unit has implemented all the mitigation and recommendations mentioned in the EIA report .
82.	Necessary permissions from various authorities like PESO, Factory Inspectors and others shall be obtained prior to commissioning of the project.	<b>Complied.</b> Necessary permission has been taken from PESO. Factory Licence has been obtained from Factory Inspectorate (DISH), Govt. of Gujarat.
<b>A.6 NOISE:</b>		
83.	The overall noise level in and around the plant area shall be kept within the standards by providing noise control measures including engineering controls like acoustic insulation hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise level shall confirm to the standards prescribed under The Environment (Protection) Act, 1986 & Rules.	<b>Complied.</b> Adequate measures are being taken to keep ambient noise well within the prescribed limits. Monthly Ambient Noise monitoring is being conducted by a MoEFF&CC recognized and NABL accredited laboratory. Please refer to the compliance of condition no. 106 of B.2.5 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>A.7 CLEANER PRODUCTION AND WASTE MINIMIZATION:</b>		
84.	The company shall undertake various waste minimization measures including: a) Metering and control of quantities of active ingredients to minimize waste. b) Use of automated and enclosed filling to minimize spillage. c) Use of close feed system into batch reactors. d) Regular preventive maintenance for avoiding leakage, spillage etc. e) Dry cleaning / mopping of floor instead of floor washing. f) Regular preventive maintenance for avoiding leakage, spillage etc.	<b>Complied.</b> Unit is undertaking all the measures for waste minimization. Please refer to the compliance of condition no. 108 of B.2.6 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>A.8 GREEN BELT AND OTHER PLANTATION:</b>		
85.	The unit shall develop green belt within	<b>Complied.</b>

	premises as per the CPCB guidelines. However, if the adequate land is not available within the premises, the unit shall take up adequate plantation on road sides and suitable open areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action plan of plantation for next three years to the GPCB.	The unit has developed Green Belt as per CPCB guidelines within as well as outside the premises and will be continuing necessary activities to continue raising the green belt area. Please refer to the compliance of condition no. 109 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
<b>B.</b>	<b>OTHER CONDITIONS:</b>	
86.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down the shall not be restarted until the desired efficiency of the control equipment has been achieve.	<b>Complied.</b> Unit has provided the system to close down the operation in the event of failure of any pollution control equipment.
87.	All the recommendations / commitments made in the EIA report of the project prepared by M/s. Jyoti Om Chemical Research Centre Pvt. Ltd., Ankleshwar and submitted vide letter no. NIL date 09/02/2015 shall be implemented in letter and spirit.	<b>Complied.</b> All the recommendations / commitments made in the EIA report are implemented.
88.	The project authorities must strictly adhere to the stipulations made by the Gujarat Pollution Control Board (GPCB).	<b>Complied</b> Unit strictly adheres to the stipulations made by the Gujarat Pollution Control Board (GPCB).
89.	During material transfer, spillages shall be avoided and garland drain be constructed to avoid mixing of accidental spillages with domestic wastewater or stormwater.	<b>Complied.</b> Unit has provided a garland drain to avoid spillage mixing with stormwater.
90.	Pucca flooring / Impervious layer shall be provided in the work areas chemical storage areas and chemical handling areas to minimize soil contamination.	<b>Complied.</b> Pucca flooring is provided in the areas of chemical handling to prohibit soil contamination.
91.	Leakages from the pipes, pumps shall be minimal and if occurs shall be arrested promptly.	<b>Complied.</b> Unit is using only mechanical seal pumps in order to avoid the leakages.
92.	No further expansion or modifications in the plant likely to cause environmental impacts shall be carried out without	<b>Complied.</b> Unit has taken the following Environment Clearances: 1. File No.: SEIAA/GUJ/EC/5(f)/342/2017, Date of Issue:

	obtaining prior Environment Clearance from the concerned authority.	<p>30/12/2017,</p> <p>2. File No.: SEIAA/GUJ/EC/5(f)/894/2019, Date of Issue: 19/06/2019,</p> <p>3. File No.: SEIAA/GUJ/EC/5(f)/1595/2020, Date of Issue: 24/12/2020,</p> <p>4. File No.: SEIAA/GUJ/EC/5(f)/1161/2021, Date of Issue: 02/07/2021,</p> <p>5. File No.: SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022,</p> <p>6. File No.: SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022</p> <p>The unit will take EC amendment if further expansion or modifications in the plant.</p>
93.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous & Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	<p><b>Complied.</b></p> <p>Unit assures to comply with all the requirements as per the Water (Prevention &amp; Control of Pollution) Act, 1974, Air (Prevention &amp; Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous &amp; Other Waste (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.</p>
94.	The company shall undertake socio-economic developmental / community welfare activities as per the CSR Rules 2014.	<p><b>Complied.</b></p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
95.	The project proponent shall comply with all the conditions mentioned in "The Companies (Corporate Social Responsibility Policy) Rules, 2014" and its amendments from time to time in a letter and spirit.	<p><b>Complied.</b></p> <p>The Unit is doing socioeconomic developmental/community welfare activities in surrounding areas. Please refer to the compliance of condition no. 148 of B.2.7 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
96.	The project management shall ensure that the unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report as well as proposed by project proponent.	<p><b>Complied.</b></p> <p>Unit complies with all the environment protection measures, risk mitigation measures and safeguards recommended in the EMP report and Risk Assessment study report.</p>

97. The project authorities shall earmark adequate funds to implement the conditions stipulated by SEIAA as well as GPCB along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.

**Complied.**

98. The applicant shall inform the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. This shall be advertised within seven days from the date of the clearance letter, in at least two local newspapers that are widely circulated in the region, one of which shall be in the Gujarati language and the other in English. A copy each of the same shall be forwarded to the concerned Regional Office of the Ministry.

**Complied.**  
 Unit informed the public that the project has been accorded environmental clearance by the SEIAA and that the copies of the clearance letter are available with the GPCB and may also be seen at the website of SEIAA / SEAC / GPCB. Advertisement was published in Times of India (Ahmedabad) Edition and Gujarat Samachar on 14<sup>th</sup> June 2016.



Publication in the newspaper got delayed due to late receipt

		of granted EC from SEIAA, Gandhinagar.
99.	The project proponent shall also comply with any additional condition that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of the environmental protection and management.	<b>Complied.</b> Unit assures to comply with any additional conditions that may be imposed by the SEAC or the SEIAA or any other competent authority for the purpose of environmental protection and management.
100.	It shall be mandatory for the project management to submit a half-yearly compliance report in respect of the stipulated prior environmental clearance terms and conditions in hard and soft copies to the regulatory authority concerned . on 1st June and 1st December of each calendar year.	<b>Complied.</b> Unit is submitting the six monthly compliance report regularly.
101.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.	<b>Noted.</b> Unit assured that no False/Fabricated data is submitted herewith.
102.	The project authorities shall also adhere to the stipulations made by the Gujarat Pollution Control Board.	<b>Complied.</b> Unit is adhering to stipulations of Gujarat Pollution Control Board.
103.	The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not found satisfactory.	<b>Noted.</b>
104.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to stipulate additional conditions, if the same is found necessary.	<b>Complied.</b> Company is implementing these conditions in a time bound manner.
105.	The project authorities shall inform the GPCB, Regional Office of MoEF and SEIAA about the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Not Applicable as the Unit has not taken a loan from any bank. The project was self financed.

106.	This environmental clearance is valid for seven years from the date of issue.	<b>Noted.</b>
107.	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act,2010.	<b>Noted.</b>

**Environment Compliance Report of  
EC File No.SEIAA/GUJ/EC/5(f)/1342/2017,  
Dated: 30/12/2017**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/1342/2017, Dated: 30/12/2017**

<b>Sr. No.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE</b>
1.	Subject of the Environmental clearance order no. <b>SEIAA/GUJ/EC/5(f)/335/2016, Dated: 20/05/2016</b> have been amended and shall be read as under: Sub: Environmental Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of Synthetic organic chemicals at Plot no: 756/4: A&B, 756/6 & 779,756: 2A &2B and 756: 3A & 3B GIDC-Jhagadia, Dist: Bharuch In Category 5(f) of Schedule annexed with EIA Notification dated 14/09/2006	<b>Noted.</b> The stated condition has been amended. Please refer to the EC File No. SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022.
2	Rest of the conditions of the Environment Clearance orders of SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 shall remain unchanged.	<b>Noted.</b>



**Environment Compliance Report of  
EC File No.SEIAA/GUJ/EC/5(f)/894/2019,  
Dated: 16/06/2019**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/894/2019 Dated 19/06/2019**

SR. NO.	CONDITIONS	COMPLIANCE
1.	Condition No. 16, 17, 18, 19, 20, 21, 24, 25, 26, 27, 29 & 55 of the environmental clearance order no. SEWAAIGUJIEC/S(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAAIGUJ/EC/5(f)/1342/2017 dated 30/12/2017 have been amended and shall be read as under:	<b>Noted.</b>
Condition no 16.	Total industrial effluent generated (408.336 KLD) shall be send to the sister concern unit i.e. Aarti Industries Ltd (Unit-I), Plot No. 758/1, 2 & 3, GIDC Estate, Jhagadia, Dist: Bharuch Located at adjoining plot for treatment.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 17.	Unit shall provide separate pipelines with individual marking for concentrate & dilute effluent generated from process & from utilities sending to the sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot for treatment.	
Condition no 18.	Unit shall recycle recovered water to the tune of 643.28 KLD (273.28 KL from Aarti Industries Limited (Unit-II) + 370 KLD from combined ETP located at sister concern unit i.e. Aarti Industries Limited (Unit-I))	
Condition no 19.	Unit shall provide separate pipeline with individual marking for recovered water from sister concern unit i.e. Aarti Industries Limited (Unit-I)	
Condition no 20.	Recovered water from combined ETP of Unit I of 370 KLD and recovered water of 273.28 from within premises shall be reused in cooling tower and process.	
Condition no 21.	The domestic wastewater (38 KLD) shall be send to sister concern unit i.e. Aarti	

	Industries Ltd (Unit-I) Located at the adjoining plot for treatment in Combined STP and after treatment the treated domestic wastewater 30 KLD shall be received back and utilized for gardening/plantation within own premises.	Please refer to the compliance of condition no. 19 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 24.	Proper Logbook of the effluent quantity and quality send to sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot, reuse etc. shall be maintained and shall be furnished to the GPCB from time to time.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 22 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 25.	Effluent shall be send to the sister concern unit i.e. Aarti Industries Limited (Unit-I) for treatment in combined ETP and shall not be allowed to discharge anywhere else or not allowed to mix with storm water.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 26.	The unit shall provide metering facility at the outlet and inlet of the wastewater discharging to the sister concern unit i.e. Aarti Industries Ltd (Unit-I) located at the adjoining plot and maintain the record for the same.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 21 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 27.	Regular performance evaluation of the combined ETP shall be undertaken every year to check its adequacy, through a reputed institute/organization and its records shall be maintained.	<b>Complied.</b> ETP performance is being evaluated and monitored on a regular basis.
Condition no 29.	Imported coal to the tune of 11.02 MT/hr shall be used as a fuel for each Steam Boiler having capacity 30 TPH (2 Boilers).	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 23 of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
Condition no 55.	Silica and Insulation waste shall be disposed off at the nearby common TSDF	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue:

30/05/2022.

2.

The following conditions shall be added in environmental clearance order no. SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter no. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017 and shall be as under:

**Complied.**

The stated condition has been amended. Please refer to the compliance of condition no. 30 of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.

➤ Hazardous waste management shall be as under:

Sr. No.	Type of Hazardous Waste	Source of Generation	As per CTE-72020	Proposed Scenario	Total after EC Amendment	Category No.	Mode of Disposal
1.	ETP Residue after evaporation	ETP Plant	50 MT/Y	-50 MT/Y	0	35.3	Collection, Storage within factory premises. Transportation and disposal at common TSDF by M/s BEIL Ankleshwar
	ETP Waste		2880 MT/Y	-2880 MT/Y	0		
	Silica	Calcium Chloride Process	10840 MT/Y	0	10840 MT/Y		Collection, storage, transportation & disposal at approved TSDF site.
2.	Used oil	Utility	18.4 MT/Y	0	18.4 MT/Y	5.1	Collection, storage, transportation, Disposal by selling to registered re-

Office : Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010 Page 2 of 3  
 Phone No.:- (079) 232-32152,232-41514 Fax No.:- (079) 232-22784  
 E-mail : msseiaa@gmail.com, Website:- www.seiaa.gujarat.gov.in

3.	Empty Barrels & Empty HDPE bags	Raw material storage area	33 MT/Y	0	33 MT/Y	33.1	processor. Collection, storage, transportation, decontamination. Disposal by sending back to raw material supplier.
	Discarded Containers /Bags		15 MT/Y	0	15 MT/Y		Collection, storage, transportation & disposal by sale to registered recycle rs/ waste filling
4.	Distillation residue & waste	Process Area	1404 MT/Y	0	1404 MT/Y	28.1	Collection, storage, transportation & disposal by incineration at CHWIF-BEIL/ SEPPL
5.	Process residue	Process Area	1613 MT/Y	0	1613 MT/Y	26.1	Collection, storage, transportation & disposal at approved incineration facility.
6.	Spent Catalyst	Process Area	235 MT/Y	0	235 MT/Y	35.2	Collection, storage, transportation & disposal by sale to registered regenerators.
7.	Hydrochloric acid (30%)	Process Area	145272 MT/Y	0	145272 MT/Y	D2	Collection, storage, transportation & reused in manufacturing of CaCl <sub>2</sub> OR sold to authorize actual end users.
8.	Spent sulphuric acid	Process Area	9300 MT/Y	0	9300 MT/Y	D2	Collection, storage, transportation & sold to authorized actual end users.

Rest of all the conditions of the Environment Clearance orders no SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016 and amended vide letter No. SEIAA/GUJ/EC/5(f)/1342/2017 dated 30/12/2017 shall remain unchanged.

**Environment Compliance Report of  
EC File No.SEIAA/GUJ/EC/5(f)/1595/2020,  
Dated: 24/12/2020**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/1595/2020 Dated 24/12/2020**

<b>Sr. No.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE</b>
1.	Condition no. 18, 19 & 20 of the environment clearance order no. SEIAA/GUJ/EC/5(f)/335/2016, dated 20.05.2016 have been amended and shall be read as under:	
I.	Subject shall be amended and read as under: Environment Clearance to M/s. Aarti Industries Limited for setting up of the proposed expansion for manufacturing of synthetic organic chemicals at plot no. Plot no. 756/2A & 2B, 756/4A & B, <b>756/7</b> , 756/5A & B, 756/6 & 779, 756: 3A & 3B GIDC -Jhagadia, Dist: Bharuch..... In category-5(f) of the schedule annexed with EIA notification dated: 14/09/2006.	<b>Noted.</b> The stated condition has been amended. Please refer to the subject of EC File No. SEIAA/GUJ/EC/5(f)/2533/2022, Date of Issue: 28/10/2022.
II	Condition No. 18 shall now be read as under: Total 179.336 KL/Day of effluent from process, washing & ejector shall be treated in ETP followed by RO & MEE.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
III	Condition No. 19 shall now be read as under: Total 221 KL/day effluent from utilities shall be treated in RO & MEE.	
IV	Condition No. 20 shall now be read as under: Unit shall recycle recovered water to the tune of 668.78 KL/day	
2.	Condition no. 16, 17, 18, 19, 20, 21, 24, 25, 26, 29 & 55 of the environment clearance order no. SEIAA/GUJ/EC/5(f)/894/2019 have been amended and shall be read as under:	
i	Condition No. 16 shall now be read as under: Total industrial effluent 400.336 KLD shall be treated in house ETP followed by MEE and RO.	<b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.
ii	Condition No. 17 shall now be read as	

	<p>under: There shall be no separate pipeline for sending effluent to M/s. Aarti Industries Ltd. (Unit-II) to M/s. Aarti Industries Ltd. (Unit-I).</p>	
iii	<p>Condition No. 18 shall now be read as under: Unit shall recycle 668 KL/Day treated effluent i.e. RO permeate and MEE condensate.</p>	
iv	<p>Condition No. 19 shall now be read as under: Unit shall earmarked pipeline of treated effluent reused in process.</p>	
v	<p>Condition No. 20 shall now be read as under: Recovered water the tune of 668 KL/Day from MEE &amp; RO shall be reuse in cooling tower and process.</p>	
vi	<p>Condition No. 21 shall now be read as under: Total domestic wastewater of 38 KL/Day shall be treated in in-house STP and shall be utilized in gardening/plantation within premises.</p>	<p><b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 19` of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
vii	<p>Condition No. 24 shall now be read as under: Proper logbook of ETP, RO, MEE &amp; STP operation, effluent quality, quality of treated effluent reused in process &amp; gardening/plantation; chemical &amp; power consumption shall be maintained and shall be furnished to the GPCB time to time.</p>	<p><b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 22` of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
viii	<p>Condition No. 25 shall now be read as under: There shall not be any discharge of effluent outside the factory premises and shall not be allowed to discharge anywhere else or not allowed to mix with storm water.</p>	<p><b>Complied.</b> The stated condition has been amended. Please refer to the compliance of condition no. 16 &amp; 17` of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>

ix	<p>Condition No. 26 shall now be read as under:</p> <p>The unit shall provide metering facility at inlet and outlet of the effluent treatment plant, RO system, MEE plant &amp; STP and maintain the record of the same.</p>	<p><b>Complied.</b></p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 21` of A.2 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
x	<p>Condition No. 29 shall now be read as under:</p> <p>Imported coal to the tune of 11.12 MT/Hr shall be used as a fuel for each steam boiler (2 Nos- Cap: 30 TPH)</p>	<p><b>Complied.</b></p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 23` of A.3 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
xi	<p>Condition No. 55 shall now be read as under:</p> <p>ETP waste, MEE salt, silica and insulation waste shall be disposed off at the common TSDF site.</p>	<p><b>Complied.</b></p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 30` of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>
	<p>Sr. No. of EC-Amendment granted by SEIAA, Gujarat vide Letter No: SEIAA/GUJ/EC/5(f)/894/2019, dated 19<sup>th</sup> June 2019) shall be now read as under.</p>	<p><b>Complied.</b></p> <p>The stated condition has been amended.</p> <p>Please refer to the compliance of condition no. 30` of A.4 of EC File No. SEIAA/GUJ/EC/5(f)/1470/2022, Date of Issue: 30/05/2022.</p>



➤ **Hazardous waste management shall be as under:**

Sr. No.	Type of Hazardous Waste	Source of Generation	As per EC-Year 2016	As per EC Amendme nt-Year 2019	As per Proposed EC amendme nt for ETP facility in Unit-II instead of Unit I	Total after EC amendme nt	Catego ry No.	Mode of Disposal
1.	ETP Residue after evaporation/ME salt	ETP Plant	50 MT/Y	-50 MT/Y	+50 MT/Y	50 MT/Y	35.3	Collection, Storage within factory premises. Transportation and disposal at common TSDF site.
	ETP Waste		2880 MT/Y	-2880 MT/Y	+2880 MT/Y	2880MT/Y		
	Silica	CaCl <sub>2</sub> Process	10840 MT/Y	10840 MT/Y	+0 MT/Y	10840 MT/Y		Collection, storage, transportation & disposal at approved TSDF site.
2.	Used oil	Utility	18.4 MT/Y	18.4 MT/Y	+0 MT/Y	18.4 MT/Y	5.1	Collection, storage, transportation. Disposal by selling to registered re-processor.
3.	Empty Barrels & Empty HDPE bags	R.M storage and finish good storage area	33 MT/Y	33 MT/Y	+0 MT/Y	33 MT/Y	33.3	Collection, storage, transportation, decontaminati on. Disposal by sending back to raw material supplier.
	Discarded Containers /Bags		15 MT/Y	15 MT/Y	0 MT/Y	15 MT/Y		Collection, storage, transportation & disposal by sale to registered recyclers/ waste filling.
4.	Distillation residue & Other waste (Spent carbon)	Process	1404 MT/Y	1404 MT/Y	0 MT/Y	1404 MT/Y	26.1	Collection, storage, transportation & disposal by incineration at CHWIF-SEPPL.
5.	Process residue		1613 MT/Y	1613 MT/Y	+0 MT/Y	1613 MT/Y		



6.	Spent Catalyst	Hydrogenation process	235 MT/Y	235 MT/Y	+0 MT/Y	235 MT/Y	35.2	Collection, storage, transportation & disposal by sale to registered regenerators.
7.	Hydrochloric acid (30%)	Scrubber	145272 MT/Y	145272 MT/Y	00	145272 MT/Y	D2	Collection, storage, transportation & reused in manufacturing of CaCl <sub>2</sub> . OR sold to authorized actual end users having Rule 9 permission.
8.	Spent sulphuric acid	process	9300 MT/Y	9300 MT/Y	0	9300 MT/Y	D2	Collection, storage, transportation & sold to authorized actual end users having Rule 9 permission.

Rest of all the conditions of the Environment Clearance orders no **SEIAA/GUJ/EC/5(f)/335/2016 dated 20/05/2016** & Environment Clearance orders no **SEIAA/GUJ/EC/5(f)/894/2019 dated 19/06/2019** shall remain unchanged.

**Environment Compliance Report of**

**EC File No.SEIAA/GUJ/EC/5(f)/2533/2022,**

**Dated: 28/10/2022**

**Environment Clearance Compliance report for period October 23 to March 24**

**File No.: SEIAA/GUJ/EC/5(f)/2533/2022 Dated 28/10/2022**

<b>SR. NO.</b>	<b>CONDITIONS</b>	<b>COMPLIANCE</b>				
1.	<p><b><u>Merger the plot</u></b>                      Merging of Environment clearance to M/s. Aarti Industries Limited (Unit-II) for setting up a manufacturing plant of "synthetic organic chemicals" (API &amp; it's intermediates) at plot no. 756/2A &amp; 2B, 756/3A &amp; 3B, 756/4 &amp; 4B, 756/5A &amp; 5B, 756/6, 756/7, 756/8+9, 779 &amp; 778, GIDC Notified Industrial Estate, Jhagadia. In category 5(f) of schedule annexed with EIA Notification dated 14109/2006.</p>	<b>Noted.</b>				
2.	<p><b><u>Change the CAS nos:</u></b>                      Corrected CAS No. in product table for Group IA-Chlorination products and its derivatives: 90000 MT/Annum.</p> <table border="1" data-bbox="295 928 901 1180"> <thead> <tr> <th data-bbox="295 928 625 991"><b>Name of Product</b></th> <th data-bbox="625 928 901 991"><b>CAS no. in EC letter</b></th> </tr> </thead> <tbody> <tr> <td data-bbox="295 991 625 1180">Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or</td> <td data-bbox="625 991 901 1180">95-50-1/106-46-7/ 541-73-1</td> </tr> </tbody> </table>	<b>Name of Product</b>	<b>CAS no. in EC letter</b>	Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or	95-50-1/106-46-7/ 541-73-1	<b>Noted.</b>
<b>Name of Product</b>	<b>CAS no. in EC letter</b>					
Ortho Di Chloro Benzene (ODCB)/ Para Di Chloro Benzene (PDCB)/ Meta Di Chloro Benzene (MDCB) either/Or	95-50-1/106-46-7/ 541-73-1					

**Annexure-2**

**Photographs of Greenbelt**











**Annexure-3**

<b>Leak Detection &amp; Repair (LDAR) Monitoring Log Sheet</b>										
<b>Sr No</b>	<b>Plant</b>	<b>Section</b>	<b>Equipments</b>	<b>VOC Component</b>	<b>Emission Source</b>	<b>Oct-Dec 23</b>				
						<b>Initial VOC (ppm)</b>	<b>Status of Leak Point</b>	<b>Date of Leak Repair</b>	<b>VOC After Repair (ppm)</b>	<b>Compliance status</b>
						27-Dec-2023		NA	NA	
1	TCAN	Unloading point	Tanker bottom valve to 6ST0901	Aniline	Flanges - 2	0	Nil	-	-	Complied
2					Valves - 5	0	Nil	-	-	Complied
3					Pump seals - 1	0	Nil	-	-	Complied
4					Drain point - 2	0	Nil	-	-	Complied
5					Sampling point - 1	0	Nil	-	-	Complied
6					Tank top nozzels - 2	0	Nil	-	-	Complied
7					Breather Valve - 1	0	Nil	-	-	Complied
8					Side Man hole - 1	0	Nil	-	-	Complied
9	TCAN	Transferring point	6ST0901 to 6R0901 (Reactor)	Aniline	Valves - 5	0	Nil	-	-	Complied
10					Sampling point - 1	0	Nil	-	-	Complied
11					Drain point - 2	0	Nil	-	-	Complied
12					Pump seals - 1	0	Nil	-	-	Complied
13	TCAN	Fresh MCB storage	6ST0808 (DCPNA) to 6ST0904 (TCAN)	Benzene	Flanges/Valves - 11	0	Nil	-	-	Complied
14					Drain points - 7	0	Nil	-	-	Complied
15					Pump seals - 2	0	Nil	-	-	Complied



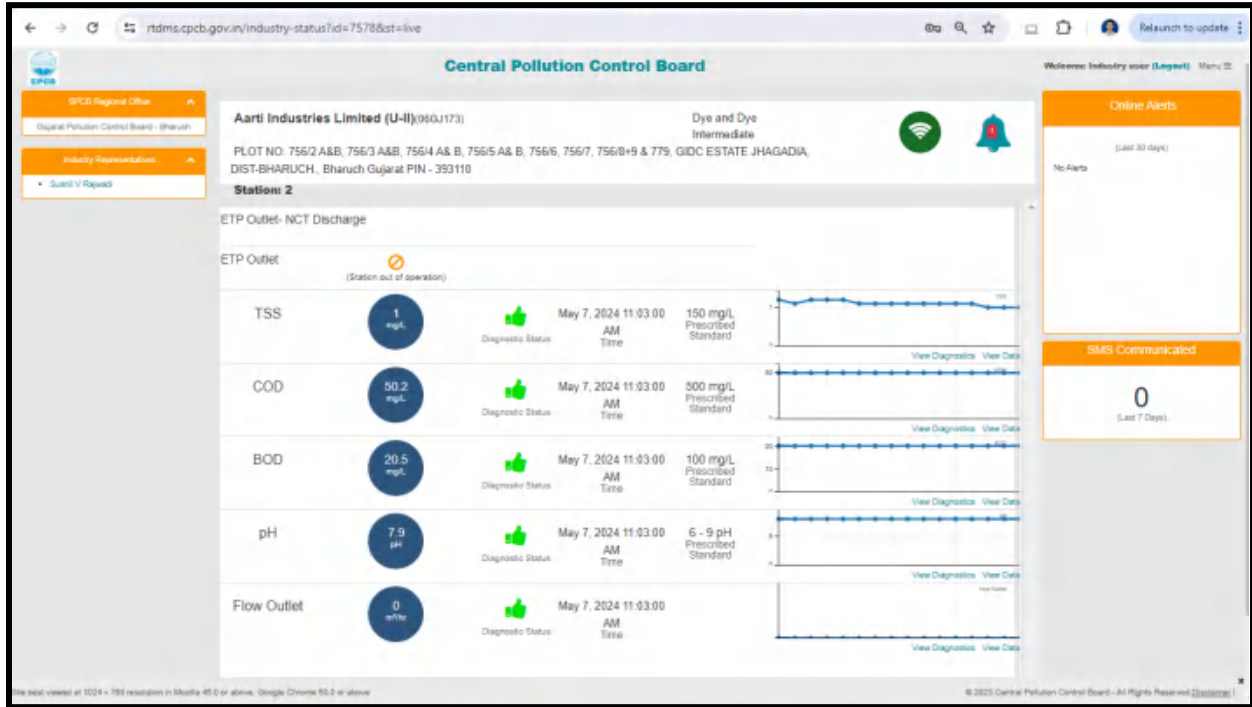
16					Sampling point - 1	0	Nil	-	-	Complied
17					Breather valve - 1	0	Nil	-	-	Complied
18					Top man hole - 1	0	Nil	-	-	Complied
19					LT/PT Flanges - 1	0	Nil	-	-	Complied
20	CLB	Benzene Day tank	6ST0101 to Bz Dryer	Benzene	Flanges - 3	0	Nil	-	-	Complied
21					Valves - 9	0	Nil	-	-	Complied
22					Pump seals - 2	0	Nil	-	-	Complied
23					Drain point - 1	0	Nil	-	-	Complied
24					Sampling point - 2	0	Nil	-	-	Complied
25					Tank top nozzels - 2	0	Nil	-	-	Complied
26					Breather Valve - 1	0	Nil	-	-	Complied
27					Side Man hole - 1	0	Nil	-	-	Complied
28	CLB	Benzene Vessel	Bz Dryer to 6V0106	Benzene	Valves - 3	0	Nil	-	-	Complied
29					Tank top nozzels - 1	0	Nil	-	-	Complied
30					Breather Valve - 1	0	Nil	-	-	Complied
31					Top man hole - 1	0	Nil	-	-	Complied
32	CLB	Benzene Vessel	6V0106 to Chlorinator	Benzene	Flanges - 2	0	Nil	-	-	Complied
33					Valves - 10	0	Nil	-	-	Complied
34					Pump seals - 2	0	Nil	-	-	Complied
35					Drain point - 1	0	Nil	-	-	Complied
36					Sampling point - 2	0	Nil	-	-	Complied
37	CLB	Recovery	6V0107 (Reflux	Benzene	Valves - 6	0	Nil	-	-	Complied

38			vessel) to 6V0106		Pump seals - 2	0	Nil	-	-	Complied
39					Sampling point - 2	0	Nil	-	-	Complied
40	TCB	ODCB dryer	6ST0101 to ODCB Dryer	Benzene	Flanges - 6	0	Nil	-	-	Complied
41					Valves - 8	0	Nil	-	-	Complied
42	TCB	ODCB dryer	ODCB dryer to 6V0134	Benzene	Flanges - 1	0	Nil	-	-	Complied
43					Valves - 4	0	Nil	-	-	Complied
44					View glass - 1	0	Nil	-	-	Complied
45	TCB	ODCB dryer	6V0134 to Benzene day tank	Benzene	Flanges - 1	0	Nil	-	-	Complied
46					Valves - 2	0	Nil	-	-	Complied
47					Pump seals - 1	0	Nil	-	-	Complied
48					Sampling point - 2	0	Nil	-	-	Complied
49	GOLD	Methanol Underground d tank	T01ST0205	Methanol	Flanges - 23	0	Nil	-	-	Complied
50					Valves - 4	0	Nil	-	-	Complied
51					Control Valve - 1	0	Nil	-	-	Complied
52					NRV - 2	0	Nil	-	-	Complied
53					Pump seals - 1	0	Nil	-	-	Complied
54					Sampling point - 2	0	Nil	-	-	Complied
55					Tank top - 3	0	Nil	-	-	Complied
56	GOLD	Methanol Collection vessel	1V0144	Methanol	Valves - 4	0	Nil	-	-	Complied
57					Flange joints - 14	0	Nil	-	-	Complied
58					Tank top - 1	0	Nil	-	-	Complied
59					XV - 1	0	Nil	-	-	Complied

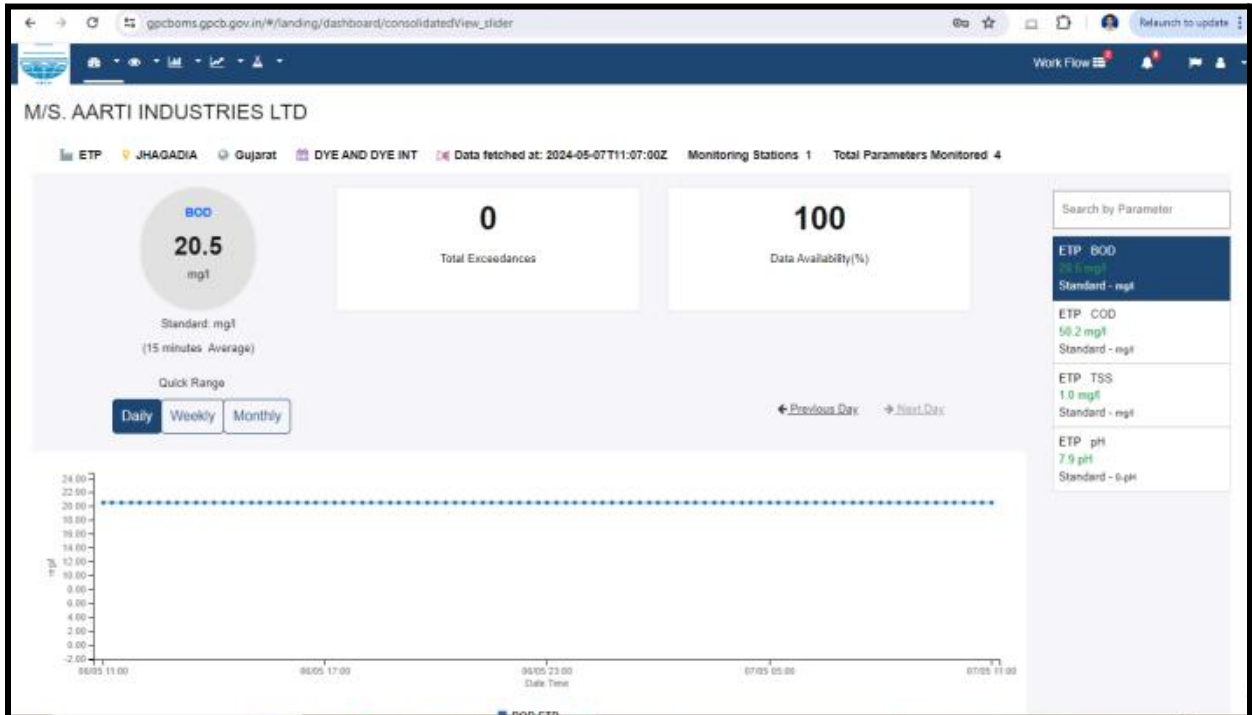
60					NRV - 2	0	Nil	-	-	Complied
61					Bottom Valve - 1	0	Nil	-	-	Complied
62	GOLD	Liq Ammonia (25%) storage vessel	1ST0204	Ammonia	Bottom Valve - 1	0	Nil	-	-	Complied
63					Valves - 4	0	Nil	-	-	Complied
64					Flanges - 4	0	Nil	-	-	Complied
65					Side Man hole - 1	0	Nil	-	-	Complied
66					Pump seal - 2	0	Nil	-	-	Complied
67					Drain point - 1	0	Nil	-	-	Complied
68					NRV - 2	0	Nil	-	-	Complied
69					Sampling point - 1	0	Nil	-	-	Complied
70					Circulation line valve - 2	0	Nil	-	-	Complied

## Annexure - 4

### OCEMS Connection



Screenshot of CPCB portal



Screenshot of GPCB portal

## Annexure-5

### Ambient Air Monitoring Report

Location 1 : PDA Gate (Nr. Safety Office)				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Oct'23	88.71	29.96	18.68	21.36
Nov'23	85.92	32.71	17.85	22.04
Dec'23	83.10	28.53	17.14	21.36
Jan'24	83.57	30.54	18.47	21.70
Feb'24	85.39	27.49	19.10	22.91
Mar'24	85.64	30.66	19.94	23.17

Location 2 : Hydrogen Plant (Nr. Security Gate)				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Oct'23	86.61	29.71	18.08	19.99
Nov'23	86.26	33.30	17.28	19.57
Dec'23	83.81	28.53	18.36	22.71
Jan'24	84.37	29.03	18.11	20.86
Feb'24	85.43	26.00	18.26	21.39
Mar'24	86.58	29.69	20.19	23.06

Location 3 : CLB Main Building (Nr. D G Set)				
Month	PM10	PM2.5	SO2	NOx
	100 µg/m3	60 µg/m3	80 µg/m3	80 µg/m3
Oct'23	86.40	30.26	18.19	19.94
Nov'23	86.35	31.22	18.27	20.78
Dec'23	80.28	30.51	17.11	21.20
Jan'24	86.29	33.68	18.81	22.94
Feb'24	79.19	32.06	20.86	23.99
Mar'24	84.16	30.92	19.53	22.32

Note: CO, Pb, Benzene, Benzopyrene, Nickel, Arsenic, VOC quantities are below detection limit (BDL).


**TEST REPORT**
**(AMBIENT AIR MONITORING)**
**ULR - TC77532400003745F**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-004</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/004	<b>Service Request Date</b>	01/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/004	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/004
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Dates of Sampling :</b>	01/03/2024	<b>Date of Testing</b>	02/03/2024
<b>Sampling Procedure:</b>	As per CPCB Guideline		
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	Min.: 24 °C	Max.: 37 °C
	<b>Rel. Humidity:</b>	Min.: 31 %	Max.: 84 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	59 %

**➤ Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

**➤ General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.22
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.06
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1540.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3


**➤ Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

**➤ Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	89.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	26.7	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.6	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	5.7	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**
  
**Nikunj D. Patel**  
 (Chemist)

**Authorized By:**
  
**Jajvik S. Tandel**  
 (Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-004</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/004	<b>Service Request Date</b>	01/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/004	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/004
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Dates of Sampling :</b>	01/03/2024	<b>Date of Testing</b>	02/03/2024
<b>Sampling Procedure:</b>	As per CPCB Guidelines		
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	Min.: 24 °C	Max.: 37 °C
	<b>Rel. Humidity:</b>	Min.: 31 %	Max.: 84 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.22
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.06
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1540.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.5	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003746F</b>				
Test Report No.:	URA/24/03/AIL-J/A-005	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/005	Service Request Date	01/03/2024	
Sample ID No.:	URA/ID/A-24/03/005	Field Data Sheet No.	URA/FDS/A-24/03/005	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C	<b>Avg.:</b> 29 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %	<b>Avg.:</b> 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.27
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1587.3
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	86.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	28.4	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	22.5	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.2	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	12.9	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-005	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/005	Service Request Date	01/03/2024
Sample ID No.:	URA/ID/A-24/03/005	Field Data Sheet No.	URA/FDS/A-24/03/005
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %
		<b>Avg.:</b> 29 °C	<b>Avg.:</b> 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.27
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1587.3
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003747F</b>				
Test Report No.:	URA/24/03/AIL-J/A-006	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/006	Service Request Date	01/03/2024	
Sample ID No.:	URA/ID/A-24/03/006	Field Data Sheet No.	URA/FDS/A-24/03/006	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C	<b>Avg.:</b> 29 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %	<b>Avg.:</b> 59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.93
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1579.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	92.1	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	36.3	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.4	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.8	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	8.2	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-006</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/006	<b>Service Request Date</b>	01/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/006	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/006
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	01/03/2024	Date of Testing	02/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 24 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 31 %	Max.: 84 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	59 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.93
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1579.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.9	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

**ULR - TC77532400003751F**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-010</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/010	<b>Service Request Date</b>	04/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/010	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/010
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Dates of Sampling :</b>	04/03/2024	<b>Date of Testing</b>	05/03/2024
<b>Sampling Procedure:</b>	As per CPCB Guidelines		
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	Min.: 19 °C	Max.: 31 °C
	<b>Rel. Humidity:</b>	Min.: 29 %	Max.: 79 %
		<b>Avg.:</b>	24 °C
		<b>Avg.:</b>	52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.45
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1672.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	91.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.7	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.5	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.9	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	15.2	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

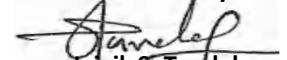
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-010</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/010	<b>Service Request Date</b>	04/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/010	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/010
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %
		<b>Avg.:</b>	24 °C
		<b>Avg.:</b>	52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.45
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1672.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.6	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

**ULR - TC77532400003752F**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-011</b>	<b>Report Issue Date</b>	03/04/2024		
<b>Service Request form No.:</b>	URA/SRF/03/011	<b>Service Request Date</b>	04/03/2024		
<b>Sample ID No.:</b>	URA/ID/A-24/03/011	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/011		
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT				
<b>Dates of Sampling :</b>	04/03/2024	<b>Date of Testing</b>	05/03/2024		
<b>Sampling Procedure:</b>	As per CPCB Guidelines				
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>				
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	<b>Min.:</b> 19 °C	<b>Max.:</b> 31 °C	<b>Avg.:</b> 24 °C	
	<b>Rel. Humidity:</b>	<b>Min.:</b> 29 %	<b>Max.:</b> 79 %	<b>Avg.:</b> 52 %	

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.28
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.12
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1631.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

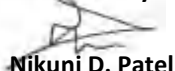
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	92.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.5	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.6	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.5	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	6.5	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-011	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/011	Service Request Date	04/03/2024
Sample ID No.:	URA/ID/A-24/03/011	Field Data Sheet No.	URA/FDS/A-24/03/011
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %
		<b>Avg.:</b> 24 °C	<b>Avg.:</b> 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.28
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.12
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1631.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.5	--	UERL/AIR/SOP/07

**Remarks:**

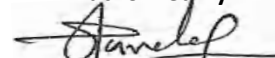
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003753F</b>				
Test Report No.:	URA/24/03/AIL-J/A-012	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/012	Service Request Date	04/03/2024	
Sample ID No.:	URA/ID/A-24/03/012	Field Data Sheet No.	URA/FDS/A-24/03/012	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	04/03/2024	Date of Testing	05/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 19 °C	Max.: 31 °C	<b>Avg.:</b> 24 °C
	Rel. Humidity:	Min.: 29 %	Max.: 79 %	<b>Avg.:</b> 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.32
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.18
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1721.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.4

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	86.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.0	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	22	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.3	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	5.9	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

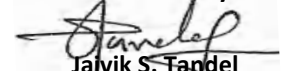
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-012</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/012	<b>Service Request Date</b>	04/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/012	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/012
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Dates of Sampling :</b>	04/03/2024	<b>Date of Testing</b>	05/03/2024
<b>Sampling Procedure:</b>	As per CPCB Guidelines		
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 3 Near CLB Plant</b>		
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	<b>Min.:</b> 19 °C	<b>Max.:</b> 31 °C
	<b>Rel. Humidity:</b>	<b>Min.:</b> 29 %	<b>Max.:</b> 79 %
		<b>Avg.:</b> 24 °C	<b>Avg.:</b> 52 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.32
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.18
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1721.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.4

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

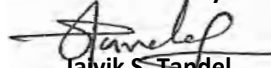
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003757F</b>				
Test Report No.:	URA/24/03/AIL-J/A-016	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/016	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/016	Field Data Sheet No.	URA/FDS/A-24/03/016	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	<b>Avg.:</b> 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	<b>Avg.:</b> 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.43
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1597.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	78.2	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	29.8	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	24.3	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	27.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	7.3	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-016</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/016	<b>Service Request Date</b>	07/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/016	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/016
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		<b>Avg.:</b> 27 °C	<b>Avg.:</b> 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.43
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1597.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.3	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003758F</b>				
Test Report No.:	URA/24/03/AIL-J/A-017	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/017	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/017	Field Data Sheet No.	URA/FDS/A-24/03/017	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	<b>Avg.:</b> 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	<b>Avg.:</b> 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.30
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1676.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	71.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	30.5	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.9	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-017	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/017	Service Request Date	07/03/2024
Sample ID No.:	URA/ID/A-24/03/017	Field Data Sheet No.	URA/FDS/A-24/03/017
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		<b>Avg.:</b> 27 °C	<b>Avg.:</b> 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.30
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1676.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.6	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003759F</b>				
Test Report No.:	URA/24/03/AIL-J/A-018	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/018	Service Request Date	07/03/2024	
Sample ID No.:	URA/ID/A-24/03/018	Field Data Sheet No.	URA/FDS/A-24/03/018	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C	<b>Avg.:</b> 27 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %	<b>Avg.:</b> 49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.24
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.08
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1570.8
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	84.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	25.1	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.6	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	19.6	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	12	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-018</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/018	<b>Service Request Date</b>	07/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/018	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/018
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	07/03/2024	Date of Testing	08/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 20 °C	Max.: 34 °C
	Rel. Humidity:	Min.: 27 %	Max.: 74 %
		<b>Avg.:</b>	27 °C
		<b>Avg.:</b>	49 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.24
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.08
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1570.8
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.5	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003763F</b>				
Test Report No.:	URA/24/03/AIL-J/A-022	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/022	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/022	Field Data Sheet No.	URA/FDS/A-24/03/022	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	<b>Avg.:</b> 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	<b>Avg.:</b> 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.16
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1698.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	83.1	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	38.4	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.5	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	10.4	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-022	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/022	Service Request Date	11/03/2024
Sample ID No.:	URA/ID/A-24/03/022	Field Data Sheet No.	URA/FDS/A-24/03/022
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.16
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1698.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.6	--	UERL/AIR/SOP/07

**Remarks:**

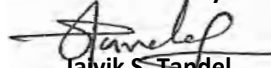
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Javik S. Tandel  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003764F</b>				
Test Report No.:	URA/24/03/AIL-J/A-023	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/023	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/023	Field Data Sheet No.	URA/FDS/A-24/03/023	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	<b>Avg.:</b> 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	<b>Avg.:</b> 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.21
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1597.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	86.5	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	21.4	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.6	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.6	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	8.9	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-023	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/023	Service Request Date	11/03/2024
Sample ID No.:	URA/ID/A-24/03/023	Field Data Sheet No.	URA/FDS/A-24/03/023
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.21
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1597.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.5	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003765F</b>				
Test Report No.:	URA/24/03/AIL-J/A-024	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/024	Service Request Date	11/03/2024	
Sample ID No.:	URA/ID/A-24/03/024	Field Data Sheet No.	URA/FDS/A-24/03/024	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C	<b>Avg.:</b> 29 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %	<b>Avg.:</b> 48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.42
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.19
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1743.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	78.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	28.6	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	21.8	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	10.7	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	5.6	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-024</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/024	<b>Service Request Date</b>	11/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/024	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/024
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	11/03/2024	Date of Testing	12/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 37 °C
	Rel. Humidity:	Min.: 27 %	Max.: 79 %
		<b>Avg.:</b>	29 °C
		<b>Avg.:</b>	48 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.42
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.19
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1743.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003769F</b>				
Test Report No.:	URA/24/03/AIL-J/A-028	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/028	Service Request Date	14/03/2024	
Sample ID No.:	URA/ID/A-24/03/028	Field Data Sheet No.	URA/FDS/A-24/03/028	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	14/03/2024	Date of Testing	15/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 35 °C	<b>Avg.:</b> 28 °C
	Rel. Humidity:	Min.: 30 %	Max.: 91 %	<b>Avg.:</b> 62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.00
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1656.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	92.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	21.7	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.8	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.1	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	6.6	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-028</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/028	<b>Service Request Date</b>	14/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/028	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/028
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	14/03/2024	Date of Testing	15/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 30 %	Max.: 91 %
		<b>Avg.:</b>	28 °C
		<b>Avg.:</b>	62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.00
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1656.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003770F</b>				
<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-029</b>	<b>Report Issue Date</b>	03/04/2024	
<b>Service Request form No.:</b>	URA/SRF/03/029	<b>Service Request Date</b>	14/03/2024	
<b>Sample ID No.:</b>	URA/ID/A-24/03/029	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/029	
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
<b>Dates of Sampling :</b>	14/03/2024	<b>Date of Testing</b>	15/03/2024	
<b>Sampling Procedure:</b>	As per CPCB Guidelines			
<b>Location of Sampling / Monitoring:</b>	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
<b>Environmental Conditions during Sampling :</b>	<b>Temp.:</b>	<b>Min.:</b> 22 °C	<b>Max.:</b> 35 °C	<b>Avg.:</b> 28 °C
	<b>Rel. Humidity:</b>	<b>Min.:</b> 30 %	<b>Max.:</b> 91 %	<b>Avg.:</b> 62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1669.8
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

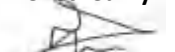
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	92.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	25.2	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.6	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	8.2	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

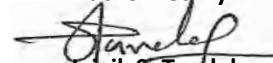
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-029	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/029	Service Request Date	14/03/2024
Sample ID No.:	URA/ID/A-24/03/029	Field Data Sheet No.	URA/FDS/A-24/03/029
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	14/03/2024	Date of Testing	15/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 30 %	Max.: 91 %
		<b>Avg.:</b> 28 °C	<b>Avg.:</b> 62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.15
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1669.8
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003771F</b>				
Test Report No.:	URA/24/03/AIL-J/A-030	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/030	Service Request Date	14/03/2024	
Sample ID No.:	URA/ID/A-24/03/030	Field Data Sheet No.	URA/FDS/A-24/03/030	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	14/03/2024	Date of Testing	15/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 35 °C	<b>Avg.:</b> 28 °C
	Rel. Humidity:	Min.: 30 %	Max.: 91 %	<b>Avg.:</b> 62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.12
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.19
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1722.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	88.3	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	37.2	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.7	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-030</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/030	<b>Service Request Date</b>	14/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/030	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/030
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	14/03/2024	Date of Testing	15/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 35 °C
	Rel. Humidity:	Min.: 30 %	Max.: 91 %
		<b>Avg.:</b>	28 °C
		<b>Avg.:</b>	62 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.12
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.19
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1722.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.8	--	UERL/AIR/SOP/07

**Remarks:**

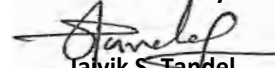
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003775F</b>				
Test Report No.:	URA/24/03/AIL-J/A-034	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/034	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/034	Field Data Sheet No.	URA/FDS/A-24/03/034	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	<b>Avg.:</b> 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.94
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1637.5
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	78.9	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	36.7	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20.4	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.2	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-034	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/034	Service Request Date	19/03/2024
Sample ID No.:	URA/ID/A-24/03/034	Field Data Sheet No.	URA/FDS/A-24/03/034
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %
		<b>Avg.:</b> 30 °C	<b>Avg.:</b> 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.94
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1637.5
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003776F</b>				
Test Report No.:	URA/24/03/AIL-J/A-035	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/035	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/035	Field Data Sheet No.	URA/FDS/A-24/03/035	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	<b>Avg.:</b> 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.91
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.08
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1549.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	88.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	32.5	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	20.4	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.7	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	12.3	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-035</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/035	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/035	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/035
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %
		<b>Avg.:</b>	30 °C
		<b>Avg.:</b>	54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.91
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.08
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1549.4
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003777F</b>				
Test Report No.:	URA/24/03/AIL-J/A-036	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/036	Service Request Date	19/03/2024	
Sample ID No.:	URA/ID/A-24/03/036	Field Data Sheet No.	URA/FDS/A-24/03/036	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %	<b>Avg.:</b> 54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.12
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1626.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	78.2	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	22.7	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	23.1	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.3	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

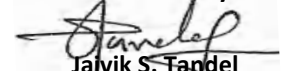
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-036</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/036	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/036	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/036
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	19/03/2024	Date of Testing	20/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 22 °C	Max.: 38 °C
	Rel. Humidity:	Min.: 28 %	Max.: 86 %
		<b>Avg.:</b>	30 °C
		<b>Avg.:</b>	54 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.20
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.12
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1626.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.6	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003781F</b>				
Test Report No.:	URA/24/03/AIL-J/A-040	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/040	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/040	Field Data Sheet No.	URA/FDS/A-24/03/040	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	<b>Avg.:</b> 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	<b>Avg.:</b> 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.50
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.11
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1631.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	89.7	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	24.9	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	16.5	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	19.9	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	14.4	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

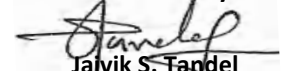
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-040</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/040	<b>Service Request Date</b>	21/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/040	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/040
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %
		<b>Avg.:</b>	31 °C
		<b>Avg.:</b>	43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.50
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.11
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1631.7
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.5	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003782F</b>				
Test Report No.:	URA/24/03/AIL-J/A-041	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/041	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/041	Field Data Sheet No.	URA/FDS/A-24/03/041	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	<b>Avg.:</b> 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	<b>Avg.:</b> 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1669.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	82.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	36.7	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.1	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	5.9	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-041</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/041	<b>Service Request Date</b>	21/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/041	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/041
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %
		<b>Avg.:</b>	31 °C
		<b>Avg.:</b>	43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.41
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1669.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.6	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003783F</b>				
Test Report No.:	URA/24/03/AIL-J/A-042	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/042	Service Request Date	21/03/2024	
Sample ID No.:	URA/ID/A-24/03/042	Field Data Sheet No.	URA/FDS/A-24/03/042	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C	<b>Avg.:</b> 31 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %	<b>Avg.:</b> 43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.45
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1599.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	84.1	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	39.2	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	17.5	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	19.5	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	8.1	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	10.4	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	2.4	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT**

**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-042</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/042	<b>Service Request Date</b>	21/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/042	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/042
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	21/03/2024	Date of Testing	22/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 41 °C
	Rel. Humidity:	Min.: 23 %	Max.: 64 %
		<b>Avg.:</b>	31 °C
		<b>Avg.:</b>	43 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.45
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.09
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1599.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.3	--	UERL/AIR/SOP/07

**Remarks:**

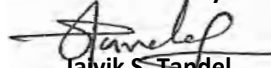
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003787F</b>				
Test Report No.:	URA/24/03/AIL-J/A-046	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/046	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/046	Field Data Sheet No.	URA/FDS/A-24/03/046	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	<b>Avg.:</b> 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.51
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.17
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1720.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.6

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

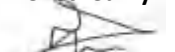
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	87.3	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	34.1	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.8	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	10.7	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	8.8	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

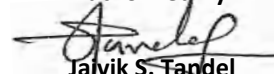
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-046</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/046	<b>Service Request Date</b>	26/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/046	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/046
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		<b>Avg.:</b>	30 °C
		<b>Avg.:</b>	63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.51
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.17
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1720.6
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.6

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003788F</b>				
Test Report No.:	URA/24/03/AIL-J/A-047	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/047	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/047	Field Data Sheet No.	URA/FDS/A-24/03/047	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	<b>Avg.:</b> 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.10
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.07
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1547.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.1

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	94.2	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	26.1	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	18.7	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	20.7	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	4.1	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-047	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/047	Service Request Date	26/03/2024
Sample ID No.:	URA/ID/A-24/03/047	Field Data Sheet No.	URA/FDS/A-24/03/047
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		<b>Avg.:</b> 30 °C	<b>Avg.:</b> 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.10
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.07
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1547.2
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.1

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	26.7	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
Nikunj D. Patel  
(Chemist)

Authorized By:

  
Javik S. Tandel  
(Manager - Operations)





**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003789F</b>				
Test Report No.:	URA/24/03/AIL-J/A-048	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/048	Service Request Date	26/03/2024	
Sample ID No.:	URA/ID/A-24/03/048	Field Data Sheet No.	URA/FDS/A-24/03/048	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C	<b>Avg.:</b> 30 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %	<b>Avg.:</b> 63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.18
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1595.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

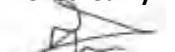
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	78.6	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	31.8	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.7	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	BDL (MDL:2.0)	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

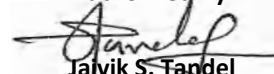
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)

**TEST REPORT**

**(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-048	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/048	Service Request Date	26/03/2024
Sample ID No.:	URA/ID/A-24/03/048	Field Data Sheet No.	URA/FDS/A-24/03/048
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	26/03/2024	Date of Testing	27/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 23 °C	Max.: 39 °C
	Rel. Humidity:	Min.: 38 %	Max.: 89 %
		<b>Avg.:</b>	30 °C
		<b>Avg.:</b>	63 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.18
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.10
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1595.9
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.2

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.7	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003793F</b>				
Test Report No.:	URA/24/03/AIL-J/A-052	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/052	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/052	Field Data Sheet No.	URA/FDS/A-24/03/052	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	<b>Avg.:</b> 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.24
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.16
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1687.1
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	79.8	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	30.9	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	19.1	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	23.8	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	10.5	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.3	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

Test Report No.:	URA/24/03/AIL-J/A-052	Report Issue Date	03/04/2024
Service Request form No.:	URA/SRF/03/052	Service Request Date	28/03/2024
Sample ID No.:	URA/ID/A-24/03/052	Field Data Sheet No.	URA/FDS/A-24/03/052
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 1 Near PDA Gate 2 (Safety office)</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %
		<b>Avg.:</b> 24 °C	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/04	Respirable Dust Sampler	210103157	30/03/2023	29/03/2024
UERL/AIR/FPS/04	Fine Particulate Sampler	210202145	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.24
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.16
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1687.1
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.3

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	8.8	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003794F</b>				
Test Report No.:	URA/24/03/AIL-J/A-053	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/053	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/053	Field Data Sheet No.	URA/FDS/A-24/03/053	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	<b>Avg.:</b> 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.46
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1673.1
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	83.3	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	33.9	<b>60</b>	IS 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	23.3	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	25.4	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	7.2	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	3.2	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**  
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

**Nikunj D. Patel**  
(Chemist)

Authorized By:

**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-053</b>	<b>Report Issue Date</b>	03/04/2024	
<b>Service Request form No.:</b>	URA/SRF/03/053	<b>Service Request Date</b>	28/03/2024	
<b>Sample ID No.:</b>	URA/ID/A-24/03/053	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/053	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 2 Near Security Gate (Hydrogen Plant)</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	<b>Avg.:</b> 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/05	Respirable Dust Sampler	150403D072	30/03/2023	29/03/2024
UERL/AIR/FPS/05	Fine Particulate Sampler	210202144	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	24.46
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.14
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1673.1
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.5

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	17.5	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Javik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(AMBIENT AIR MONITORING)**

<b>ULR - TC77532400003795F</b>				
Test Report No.:	URA/24/03/AIL-J/A-054	Report Issue Date	03/04/2024	
Service Request form No.:	URA/SRF/03/054	Service Request Date	28/03/2024	
Sample ID No.:	URA/ID/A-24/03/054	Field Data Sheet No.	URA/FDS/A-24/03/054	
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT			
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024	
Sampling Procedure:	As per CPCB Guidelines			
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>			
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C	<b>Avg.:</b> 24 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.94
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.18
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1695.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**

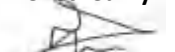
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Particulate Matter PM <sub>10</sub>	µg/m <sup>3</sup>	85.9	<b>100</b>	IS: 5182 (Part 23)
2.	Particulate Matter PM <sub>2.5</sub>	µg/m <sup>3</sup>	25.4	<b>60</b>	IS: 5182 (Part 24)
3.	Sulphur Dioxide (SO <sub>2</sub> )	µg/m <sup>3</sup>	21.8	<b>80</b>	IS: 5182 (Part 2)
4.	Nitrogen Dioxide (NO <sub>2</sub> )	µg/m <sup>3</sup>	24.2	<b>80</b>	IS: 5182 (Part 6)
5.	Ozone	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>180</b>	IS: 5182 (Part 9)
6.	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	BDL (MDL:5.0)	<b>400</b>	IS: 5182 (Part 25)
7.	Carbon Monoxide (CO)	mg/m <sup>3</sup>	BDL (MDL:1.0)	<b>2.0</b>	IS: 5182 (Part 10)
8.	Lead (Pb)	µg/m <sup>3</sup>	BDL (MDL:0.5)	<b>1.0</b>	IS: 5182 (Part 22)
9.	Benzene	µg/m <sup>3</sup>	BDL (MDL:1.0)	<b>5.0</b>	IS: 5182 (Part 11)
10.	Benzo(a)Pyrene (BAP)	ng/m <sup>3</sup>	BDL (MDL:0.1)	<b>1.0</b>	IS: 5182 (Part 12)
11.	Nickel	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	IS: 5182 (Part 26)
12.	Arsenic	ng/m <sup>3</sup>	BDL (MDL:1.0)	<b>6.0</b>	IS: 5182 (Part 22)
13.	Chlorine (Cl <sub>2</sub> )	µg/m <sup>3</sup>	4.9	--	IS: 5182 (Part 19)
14.	Volatile Organic Compound	µg/m <sup>3</sup>	BDL (MDL:1.0)	--	IS: 5182 (Part-11)

**Remarks:**

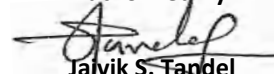
**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jajvik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(AMBIENT AIR MONITORING)**

<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/A-054</b>	<b>Report Issue Date</b>	03/04/2024
<b>Service Request form No.:</b>	URA/SRF/03/054	<b>Service Request Date</b>	28/03/2024
<b>Sample ID No.:</b>	URA/ID/A-24/03/054	<b>Field Data Sheet No.</b>	URA/FDS/A-24/03/054
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Dates of Sampling :	28/03/2024	Date of Testing	29/03/2024
Sampling Procedure:	As per CPCB Guidelines		
Location of Sampling / Monitoring:	<b>AAQM station - 3 Near CLB Plant</b>		
Environmental Conditions during Sampling :	Temp.:	Min.: 18 °C	Max.: 30 °C
	Rel. Humidity:	Min.: 42 %	Max.: 73 %
		<b>Avg.:</b> 24 °C	<b>Avg.:</b> 60 %

➤ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/06	Respirable Dust Sampler	150403D062	30/03/2023	29/03/2024
UERL/AIR/FPS/06	Fine Particulate Sampler	210202149	30/03/2023	29/03/2024

➤ **General Sampling / Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	23.94
2.	Flow Rate of PM <sub>10</sub>	m <sup>3</sup> /min	1.18
3.	Volume of Air Sampled for PM <sub>10</sub>	m <sup>3</sup>	1695.0
4.	Volume of Air Sampled for PM <sub>2.5</sub>	m <sup>3</sup>	24.0

➤ **Environmental Conditions during testing :** Temp. : 25 ± 5 °C, Relative Humidity: 40 to 52%

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	µg/m <sup>3</sup>	BDL (MDL:5.0)	--	UERL/AIR/SOP/07

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit, MDL: Minimum Detection Limit.

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Javik S. Tandel**  
(Manager - Operations)



### Annexure-7

### Form No. 37 : Monitoring and Record of Volatile Organic Compounds

**FORM NO. 37**  
(Prescribed under Rule 12-B)

Register Containing Particulars of monitoring of working environment required under Section 7-A(2) (e).

1. Name of the Department/Plant: JADE - CLB, TCRH

2. Raw materials, by products and finished products involved in the process: CS2, CL2, B.E.T.S.E.O, AMINE

3. Particulars of sampling.

Date: 30  
12-2022

प्रमाण निवारण अर्ज संख्या: 2022

Sl. No.	Location monitored	Identified contaminants	Sampling instrument used	Airborne Contamination		
				Number of Samples	Range	Average
1	2	3	4	5	6	7
			JADE	18-03-2022		
01	CLB PLANT (Distillation)	CS2	NOC	01	0.000	0.000
02	CLB PLANT (Distillation)	CS2	NOC	01	0.000	
03	CLB PLANT (Distillation)	CS2	NOC	01	0.000	
01	TCR PLANT (Distillation)	AMINE	NOC	01	0.100	0.100
02	TCR PLANT (Distillation)	AMINE	NOC	01	0.100	
03	TCR PLANT (Distillation)	AMINE	NOC	01	0.100	
01	CLB PLANT (Distillation)	CHLORINE	CL2	01	0.000	0.000
02	CLB PLANT (Distillation)	CHLORINE	CL2	01	0.000	
03	CLB PLANT (Distillation)	CHLORINE	CL2	01	0.000	

TVA concentrations (As given in Second Schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature person taking samples	Name (In block letters)
8	9	10	11	12	13
1.000	Digital PID Sensor	01	Within Range	[Signature]	Vijay Singh
1.000	Digital PID Sensor	01	Within Range		
1.000	Digital PID Sensor	01	Within Range		
1.000	Digital PID Sensor	01	Within Range	[Signature]	Vijay Singh
1.000	Digital PID Sensor	01	Within Range		
1.000	Digital PID Sensor	01	Within Range		
0.500	Digital PID Sensor	02	Within Range	[Signature]	Vijay Singh
0.500	Digital PID Sensor	02	Within Range		
0.500	Digital PID Sensor	02	Within Range		

FORM NO. 37  
(Prescribed under Rule 12-B)

- Register Containing Particulars of monitoring of working environment required under Section 7-A(2) (e).
- Name of Department/Plant: CYCLD
  - Raw materials, by products and finished products involved in the process: ISOBUTYLENE, AMMONIA, METHANOL, BENZENE, ANILINE, CHLORINE
  - Particulars of sampling:

Sr. No. କ୍ର. ନଂ	Location operation mentioned ସ୍ଥାନ	Identified contaminated ପ୍ରଦୂଷିତ	Sampling Instrument used ଉପକରଣ	Airborne Contamination		
				Number of Samples ନମୁନା	Range ରାଞ୍ଜ	Average ଘନିତ
1	2	3	4	5	6	7
①	QC LAB	ISOBUTYLENE	Voc	01	0.0	0.0 PPM
	QC Room	"	"	01	0.0	
	HPLC Room	"	"	01	0.0	
	WET LAB	"	"			
②	QC Room	METHANOL	Voc	01	0.0	0.0 PPM
	HPLC Room	"	"	01	0.0	
	WET LAB	"	"	01	0.0	
③	DESK TANK	METHANOL	Voc	01	0.0	0.0 PPM
	FARM	"	"	01	0.0	
	"	"	"	01	0.0	
④	TANK FARM	AMMONIA	Voc	01	0.1	0.1 PPM
	01	"	"	01	0.1	
	"	"	"	01	0.1	
⑤	TANK FARM	ISOBUTYLENE	Voc	01	0.2	0.1 PPM
	01	"	"	01	0.1	
	"	"	"	01	0.2	
⑥	MAZEH PLANT	ISOBUTYLENE	Voc	01	0.2	0.2 PPM
	01P	"	"	01	0.2	
	"	"	"	01	0.2	
⑦	MAZEH PLANT	ISOBUTYLENE	Voc	01	0.0	0.0 PPM
	FIF	"	"	01	0.0	
	"	"	"	01	0.0	

ଖାମି ନଂ 30  
ତାରିଖ 12-03-2024

ସ୍ୱଚ୍ଛତା ନିବାରଣ ଅଭିଯୋଗ ରଖାଯାଇଛି

DATE - 31-03-2024

TWA concentrations (As given in Second Schedule)	Reference method	Number of workers exposed at the location being monitored	Remarks	Signature person taking sample	Name (In Block Letters)
8	9	10	11	12	13
50 PPM	DUSTRAL	02	WITHIN RANGE	[Signature]	MURESH
	FID				
	SEMI-R				
200 PPM	"	02	"	[Signature]	MURESH
200 PPM	"	00	"	[Signature]	MURESH
25 PPM	"	00	"	[Signature]	MURESH
50 PPM	"	00	"	[Signature]	MURESH
50 PPM	"	02	"	[Signature]	MURESH
50 PPM	"	01	"	[Signature]	MURESH



भारत सरकार  
Government of India  
वाणिज्य और उद्योग मंत्रालय  
Ministry of Commerce & Industry  
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पेसो)  
Petroleum & Explosives Safety Organisation (PESO)  
आठवीं मंजिल, यश कमल बिल्डिंग, सयाजीगंज  
बड़ोदरा- 390020  
8th Floor, Yash Kamal Building, Sayajigunj,  
Vadodara - 390020

E-mail : dyccebaroda@explosives.gov.in  
Phone/Fax No : 0265 - 2225159

संख्या /No. : PWB/GJ/15/2862 (P526017)

सेवा में /To,

दिनांक /Dated : 13/10/2022

M/s. Aarti Industries Limited (Unit II),  
PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B,  
GIDC Jhagadia,  
Jhagadia,  
Taluka: Jhagadia,  
District: BHARUCH,  
State: Gujarat  
PIN: 393110

विषय /Sub : Survey No, 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 में पेट्रोलियम वर्ग A का अधिष्ठापन-अनुज्ञापि जारी करने के बारे में।  
Petroleum Class A Installation at Survey No, 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 Grant of License regarding.

महोदय  
/Sir(s),

कृपया आपके पत्र क्रमांक OIN1177864 दिनांक 08/10/2022 का अवलोकन करें।  
Please refer to your letter No. OIN1177864 dated 08/10/2022

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2024 तक वैध अनुज्ञापि संख्या PWB/GJ/15/2862 (P526017) दिनांक 13/10/2022 भेजी जा रही है।

Licence No. PWB/GJ/15/2862 (P526017) dated 13/10/2022 granted in Form XV under the Petroleum Rules, 2002 and valid till 31/12/2024 for the storage of the following kinds and quantities of Petroleum at the subject Installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञापि क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	12.50 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	12.50 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें और अनुज्ञापि के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञापि की वैधता समाप्ति की तारीख या उससे पूर्व इस कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for further renewal of the licence to this office, so as to reach on or before the date on which licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

(गणेश आर.)  
(GANESH R.)  
उप विस्फोटक नियंत्रक  
Dy. Controller of Explosives  
कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
For Jt. Chief Controller of Explosives  
बड़ोदरा/Vadodara

Copy forwarded to :-

1. The Additional District Magistrate, BHARUCH(Gujarat) with reference to his NOC No MAG/NOC/WS/7273/7613/8177/2022 Dated 03/09/2022

For Jt. Chief Controller of Explosives  
Vadodara

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)  
(For more information regarding status, fees and other details please visit our website <http://peso.gov.in>)  
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भारत सरकार

Government of India

वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO)

9वीं मंजिल, पार्क पैराडाइज, वडसर

वडोदरा- 390012

9th Floor, Park Paradise, Vadsar,

Vadodara - 390012

E-mail : [jtce.vadodara@explosives.gov.in](mailto:jtce.vadodara@explosives.gov.in)

Phone/Fax No : 0265 - 2361035

संख्यां /No. : P/WC/GJ/15/2715 (P404037)

दिनांक /Dated : 11/10/2023

सेवा में /To,

M/s. M/s. AARTI INDUSTRIES LIMITED,  
PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area,  
GIDC Jhagadia,  
Jhagadia,  
Taluka: Jhagadia,  
District: BHARUCH,  
State: Gujarat  
PIN: 393110

विषय /Sub : Survey No, 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 में स्थित पेट्रोलियम वर्ग A अधिष्ठापन - पेट्रोलियम नियम 2002 के अंतर्गत प्ररूप XV में जारी अनुज्ञापि सं P/WC/GJ/15/2715 (P404037) - संशोधन के संदर्भ में ।  
Existing Petroleum Class A Installation at Survey No, 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110- Licence No. P/WC/GJ/15/2715 (P404037) - granted in form XV under Petroleum Rules 2002 - Amendment regarding

महोदय  
/Sir(s),

कृपया आपके उपर्युक्त विषय से संबंधित पत्र संख्या OIN1465378 दिनांक 10/10/2023 का संदर्भ ग्रहण करें ।

Reference to your letter No. OIN1465378 dated 10/10/2023 on the above subject.

दिनांक 31/12/2025 तक वैध अनुज्ञापि संख्या P/WC/GJ/15/2715 (P404037) दिनांक 11/10/2023 निम्नलिखित वर्ग एवं मात्राओं में पेट्रोलियम भंडारण के लिए यथा संशोधित कर इस पत्र के साथ लौटाई जा रही है ।  
Licence No. P/WC/GJ/15/2715 (P404037) dated 11/10/2023 valid upto 31/12/2025 is returned herewith duly amended with respect to Lay out Amendment, Capacity Amendment,

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञापि क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A, in bulk	1764.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B, in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C, in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total	1764.00 KL

कृपया पावती दें।

Please acknowledge the receipt.

भवदीय /Yours faithfully,

(तेजवीर सिंह)  
(Tejveer Singh)  
उप विस्फोटक नियंत्रक  
Dy. Controller of Explosives  
कृते संयुक्त मुख्य विस्फोटक नियंत्रक  
For Jt. Chief Controller of Explosives  
वडोदरा/Vadodara

Copy forwarded to :-

1. The Additional District Magistrate, BHARUCH(Gujarat) with reference to his NOC No MAG/NOC/WS/15081563/1564/2020 Dated 02/03/2020

For Jt. Chief Controller of Explosives  
Vadodara

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : <http://peso.gov.in> देखें)

(For more information regarding status,fees and other details please visit our website: <http://peso.gov.in>)

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प्ररूप XV  
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)  
FORM XV  
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.): P/WC/GJ/15/2715(P404037)

फीस रूप (Fee Rs.) 50000/- per year

M/s. M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 1764.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/WC/GJ/15/2715(P404037) तारीख 17/03/2020 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. M/s. AARTI INDUSTRIES LIMITED, PLOT NO. 756/4,5,6,7 & 779, GIDC Industrial Area, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 valid only for the importation and storage of 1764.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/WC/GJ/15/2715(P404037) dated 17/03/2020 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2025 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2025

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	1764.00 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	1764.00 KL

March 17, 2020

For Jt. Chief Controller of Explosives  
WC, Mumbai

1). Amendment dated - 11/10/2023

अनुज्ञप्त परिसरों का विवरण और अवस्थान  
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 9 Under Ground tank(s) for CLASS A सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: 135, 136 & Plot No. 758/1-2-3, 779,756/2A/B, 756/3A/B,756/4A/B,756/5A/B,, GIDC JHAGADIA, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 and consists of 9 Under Ground tank(s) for CLASS A together with connected facilities.

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अनुज्ञप्ति संख्या-(Licence No.) P/WC/GJ/15/2715 (P404037)

**नवीनीकरण के पृष्ठांकन के लिए स्थान**  
**SPACE FOR ENDORSEMENT OF RENEWALS**

पेट्रोलियम अधिनियम, १९३४ के उपबन्धों या नवीकरण की तारीख समाप्ति की तारीख अनुज्ञापन प्राधिकारी के हस्ताक्षर और उनके अधीन बनाए गए नियमों या इस अनुज्ञप्ति Date of Date of स्टाम्प की शर्तों का उल्लंघन न होने की दशा में यह Renewal Expiry of license Signature and office stamp of the अनुज्ञप्ति फ़िस में बिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी |

This licence shall be renewable without any concession in fee for ten years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.

1).

18/12/2020 31/12/2025

Sd/-

Mohanlal Jana  
Dy. Controller of Explosives  
For Jt. Chief Controller of  
Explosives  
Vadodara

यदि अनुज्ञप्ति परिसर इसमें उपाबद्ध विवरण और शर्तों के अनुरूप नहीं पाए जाते हैं और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्तिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा |

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

**Note:-This is system generated document does not require signature.**

प्ररूप XV  
(प्रथम अनुसूची का अनुच्छेद 6 देखिए)  
FORM XV  
(see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञप्ति  
LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/WB/GJ/15/2862(P526017)

फीस रूपए (Fee Rs.) 5000/- per year

M/s. Aarti Industries Limited (Unit II), PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 को केवल इसमें यथा विनिर्दिष्ट वर्ग और मात्राओं में पेट्रोलियम 12.50 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/WB/GJ/15/2862(P526017) तारीख 13/10/2022 जो कि इससे उपाबद्ध है, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती है।

Licence is hereby granted to M/s. Aarti Industries Limited (Unit II), PLOT NO.-756/2 A&B,756/3 A&B, 756/4 A&B, 756/5 A&B, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 valid only for the importation and storage of 12.50 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/WB/GJ/15/2862(P526017) dated 13/10/2022 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December 2024 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 31st day of December 2024

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	12.50 KL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C, otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	12.50 KL

October 13, 2022

For Jt. Chief Controller of Explosives  
WB, Vadodara

अनुज्ञप्त परिसरों का विवरण और अवस्थान  
DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शों में दिखाई गई हैं Survey No: 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Under Ground tank(s) for CLASS A सम्मिलित हैं।

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Survey No: 122, Plot no 756/2 A&B,756/3 A&B, 56/4 A&B, 756/5 A&B, 756/6 A&B,756/7, 779 & Survey NO. 122,, GIDC Jhagadia, Jhagadia, Taluka: Jhagadia, District: BHARUCH, State: Gujarat, PIN: 393110 and consists of 1 Under Ground tank(s) for CLASS A together with connected facilities.

signature.

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Directorate Industrial Safety & Health

सत्यमेव जयते

Directorate Industrial Safety & Health

FORM NO. 4  
(Prescribed under Rules 5)

FORM NO. 4  
License to work a factory  
(Prescribed under Rule 5)

Registration No. 1952/2417/2012  
FIN. S06015402A

License No. 15402  
D.A. 26-Oct-2012

License is hereby granted to  
**Mr. KIRITBHAI R. MEHTA**  
For the premises known as  
**AARTI INDUSTRIES LIMITED**

situated at

**PLOT NO. 756/2A&B 3A&B 4A&B 5A&B 6 7&779 JHAGADIA GIDC. DIST. BHARUCH**

Ta.: Jhagadia Dist.: Bharuch

for use as a factory within the limits specified in the plan approved by the  
**Joint Director Industrial Safety and Health, Surat Region**  
vide No. 1206 Date 20-Oct-2011 subject to provisions of the  
Factories Act, 1948 and the Rules made thereunder.

The license is issued for:

- Maximum Number of workers to be employed on any day during the Year : **\*\*5,000\*\***
- Maximum installed power in B.H.P. on any day during the year : **\*\*Above 5000\*\***

The license is valid up to 31st December 2025,

Fees paid Rs. 330,200.00

Fees due Rs. 330,050.00

Excess Rs. 150.00

Place : **Bharuch**

Date : **06-Feb-2021**



Signature valid

Digitally signed by VAGHELA NAVIN  
DHIRAJLAL  
Date: 2021.02.06 10:14:32 +05:30  
Reason: Approval  
Location: Bharuch

Deputy Director  
Industrial Safety and Health  
Bharuch



AIL/CAJ/2024-25/03

April 23, 2024

To,  
The Deputy Director.  
Industrial safety & health,  
2<sup>nd</sup> floor, Multi Storied Building,  
Near new court,  
Kanbi Vaga. Bharuch.

Sub: Submission of Mock Drill Report

Respected Sir ,

Referring to the subject mentioned above, we had conducted a Mock drill on dated 28.03.2024 to check the preparedness and effectiveness of the employees as per our schedule. We are submitting the detailed report for your kind perusal.

Refer attached annexure of detailed mock drill report. In view of the above, We request to acknowledge the same and oblige.

Thanking You,  
For, Aarti Industries Limited,

(Authorized Signatory)

Encls: Mock drill report along with photographs.

CMF  
Senior Clerk  
Deputy Director  
Industrial Safety & Health  
BHARUCH 25/4/24  
CM

[www.aarti-industries.com](http://www.aarti-industries.com) | CIN: L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, IIIrd Phase, GIDC Vapi-396195, Dist- Valsad. INDIA. T : 0260-2400366.

Factory : Plot No. - 756/4-5-6-7 &amp; 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).

Phone No. : 9537011811, 9537011711, 9537011811

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.

T : 022-67976666, F : 022-2565 3234 | E : info@aarti-industries.com



# Annexure-11

## Fire Hydrant Details

### Fire Pump house near PDA plant

Sr. No	Description	Make	HP	RPM	Flow Rate	Head
1	Jockey Pump A	Apex	20 HP	2900	10 M3/HR	88 m
2	Jockey Pump B	Apex	20 HP	2900	10 M3/HR	88 m
3	Main Pump A	Crompton	150 HP	2900	273 M3/HR	88 m
4	Main Pump B	Crompton	150 HP	2900	273 M3/HR	88 m
5	Disel Pump	Kirlosker	167 HP	1800	273 M3/HR	88 m
<b>Fire Water Reservior Capacity :- 420 KL</b>				<b>Diesel tank capacity of DG Pump :- 200 Litres</b>		

### Fire Pump house near Hydrogen generation plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	Jockey Pump	Crompton	7.5 HP	2900	10	70 m
2	Main Pump	Crompton	100HP	2970	270	70 m
3	Diesel Pump	Greaves	130HP	1800	270	70 m
<b>Fire Water Reservior Capacity :- 420 KL</b>				<b>Diesel tank capacity of DG Pump :- 200 Litres</b>		

### Fire Pump house near Gold Plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	Jockey Pump	WILO	7.37 HP	2900	10.8 m3	88 mmwc
2	Jockey Pump	WILO	7.37 HP	2900	10.8 m3	88 mmwc
3	Main Pump	WILO	202.49 HP	1488	410 m3	88 mmwc
4	Diesel Pump	WILO	254 HP	1800	410 m3	88 mmwc
<b>Fire Water Reservior Capacity :- 1230 KL</b>				<b>Diesel tank capacity of DG Pump :- 500 liters</b>		

### Fire Pump house near 2,5 DCNB Plant

Sr. No	Description	Make	HP	RPM	Flow Rate (m3/hr)	Head
1	JOCKEY Pump 1	WILO	45	2965	50	105 mmwc
2	JOCKEY Pump 2	WILO	45	2965	50	105 mmwc
3	MAIN Pump 1	WILO	225	1490	410	105 mmwc
4	MAIN Pump 2	WILO	225	1490	410	105 mmwc
5	DIESEL Pump	WILO	260	2100	410	105 mmwc
<b>FIRE WATER RESERVOIR CAPACITY : 4000KL</b>				<b>DIESEL TANK CAPACITY :- 500 LITERS</b>		



**VISION POWER FACTx**

**POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES**

## **AREA CLASSIFICATION REPORT**

**Client: Aarti Industries**

**Location: Jhadia – Gujarat Plant**

**Unit 1 & Unit 2**



# VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

## PROLOGUE

Area Classification Review or Hazardous Area Classification Review audit was conducted at Aarti Industries Ltd., Jhagadia GIDC in Gujarat. Aarti Industries Ltd. has two Units (Unit 1 & Unit 2) and both the units were covered in the Audit.

Area Classification Review involves in principle, a survey of electrical apparatus operating in plant where the process involves use of chemicals in liquid, gaseous, or powder form and reactions are brought about on large scale. The energy used in the process is largely deployed through apparatus/machinery using electrical power through electric motors and other electrical apparatus. Also, power electronic and automation devices operating under the environment come under the scope of review.

This report includes begins with basics of Area Classification, approach and methodology taken during Area classification Review, and finally area wise observations and finally recommendations for enhancing safety measures.

Audit was completed by the team members mentioned below in three visits to the plant.

Pradip Thakur

Prashant Samant

Tushar Jagdale

Dipti Dhakan

Rakesh Chouhan

Prasahnt Savant

It is hoped that the contents of the reports, suggestions and findings will be appreciated.

The filed team thanks all concerned engineers and managers for extending best of their cooperation and also sharing necessary information to the field team during the area classification review at the site.

**For Vision Power Factx**

**Authorized Signatory**



# VISION POWER FACTx

POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

## 1.0 BASICS OF AREA CLASSIFICATION

### EXPLOSION DUE TO FLAMMABLE GASES & VAPOURS:

The chemicals being used enter the surrounding (in the form of vapours, mist or gas) OR may be present in the powder form. If inflammable, these gases, vapours, mist or suspended particles may reach concentration levels good enough to cause explosion if the operating electrical apparatus lets out spark. Also, should the surface temperature of electrical apparatus reach the point where given concentration above LEL (Lower Explosive Limit) of flammable gases, vapours reach Auto Ignition point there can be an explosion.

### EXPLOSION DUE TO FLAMMABLE DUST:

Five elements are necessary to initiate a dust explosion, often referred to as the “Dust Explosion Pentagon”.

1. Combustible dust (fuel);
2. Ignition source (heat); and,
3. Oxygen in air (oxidizer).

An additional two elements must be present for a combustible dust explosion:

4. Dispersion of dust particles in sufficient quantity and concentration; and,
5. Confinement of the dust cloud.

Area Classification as per IEC has Zone 0, Zone 1 & Zone 2 for protection against flammable volatile liquids, Mist, Gases and Vapours.

Area Classification as per IEC has Zone 20, Zone 21 & Zone 22 for protection against flammable dust particles.

The zone classification is based on the likelihood and the duration of an explosive atmosphere.

It is all about ensuring that electrical and power electronic equipment or apparatus or system design as well as installation meets with the criteria of Zone classifications.

### **Zone 0:**

Is where, flammable substances in the form of gas, vapour or mist can remain present continuously or frequently. Such areas for example could be: Most often closed process vessels, closed storage tanks and closed containers IP 15 stipulates presence of flammable gases, vapours or mists for more than 1000 hours per Annum.

### **Zone 1:**

Is where, flammable substances in the form of gas, vapour or mist are likely to occur in normal operation occasionally. Gas generator rooms inadequately ventilated pump rooms for flammable gases or for





# VISION POWER FACTx

## POWER QUALITY – ENERGY AUDITS – SAFETY AUDITS – POWER SYSTEM STUDIES

volatile flammable liquids IP 15 stipulates between presence of flammable gases, vapours or mists between 10 hours to 1000 hours per Annum.

### **Zone 2:**

Is where explosive atmosphere consisting of air mixed with flammable substances in the form of gas, vapour or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

For an area to qualify as Zone 2 the following are the requirements.

1. The area is so well ventilated that if an abnormal conditions arises, ignitable concentrations of the gas or vapour are rapidly dispersed.
2. And complete segregation from Zone 1 locations is ensured.

IP 15 stipulates: flammable vapours or gases of less than 10 hours per annum

### **GAS GROUP & TEMPERATURE CLASS:**

When performing Hazardous area zoning and compliances it necessary to look into **Two More** aspects.

1. Gas Group of flammable Atmosphere
2. Temperature Class for flammable Atmosphere

Explosion protected apparatus suitable for a Zone 1 area such as Flameproof (Ex d) apparatus is automatically suitable for all Zone 1 locations. This is misconception. The gas group of the environment also needs to be considered.

- a) **Group I** : Electrical equipment for mines susceptible to methane, &
- b) **Group II** : Electrical equipment for all places with an explosive gas atmosphere, other than mines susceptible to methane.

Group II is then further divided into subgroups II A, II B or II C.

If any equipment is certified for use in Gas Group IIC, it can be used for Gas Groups II B and II A.

If any equipment is certified for use in Gas Group IIB, it can be used for Gas Groups II A.

If any equipment is certified for use in Gas Group IIA, it cannot be used for Gas Groups II B and II C.

**NOTIFIED AREA OFFICE**

(GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION)

Plot no. 40, Road no. 08 Near PepsiCo.

GIDC Jhagadia – 393110

Phone – (02645) 226154

Email – [chiefofficernajhg@gmail.com](mailto:chiefofficernajhg@gmail.com)

GSTIN no. 24AAALN1956C1ZD

નિર્દિષ્ટ વિસ્તાર અધિકારીશ્રીની કચેરી

(ગુજરાત ઔદ્યોગિક વિકાસ નિગમ)

પ્લોટ નં. ૪૦, રોડ નં. ૦૮,

પેપ્સીકો કંપની પાસે

જીઆઈડીસી ઝગડિયા - ૩૯૩૧૧૦

OW No. NAA/ CO/ JHG/ 163

Date – 28/5/2020

**To Whom So Ever It May be Concern**

This is to certify that, GIDC is able to supply 5600.0 KL/Day quantity of water to M/s Aarti Industries, Plot No. 779 + 756/2A&B + 756/3A&B + 756/4A&B + 756/5 A&B + 756/6 + 756/7 and Others at GIDC Jhagadia Industrial Estate, as per GIDC water supply rules and regulations after getting approval from competent authority of GIDC.

Chief Officer (N.A.A)  
GIDC Jhagadia

To,  
M/s Aarti Industries,  
Plot No. 779 + 756/2A&B + 756/3A&B + 756/4A&B + 756/5 A&B + 756/6 + 756/7  
G.I.D.C, Jhagadia

No: GIDC/DEE/JHG/ 5H

DATE : 14.11.2017

To Whom So Ever It May Be Concern

This is to certify that GIDC is able to supply 855.0 KL/day quantity of water to M/s Aarti Industries Limited , Plot No. 778 at GIDC Jhagadia Industrial Estate . as per GIDC water supply rules and regulations .



Dy Executive Engineer

GIDC Jhagadia



To,

M/s Aarti Industries Limited

Plot No. 778

GIDC , Jhagadia



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,  
GANDHINAGAR - 382010,  
(T) 079-23232152

By R.P.A.D.

CONSOLIDATED CONSENT AND AUTHORIZATION (CC & A - Amendment)  
CCA AMENDMENT NO: AWH - 126636

NO: GPCB/ANK/CCA-1381(7)/ID-35534/

DT:     /06/2023

To,  
M/s. AARTI INDUSTRIES LTD.  
PLOT NO: 756/2A&2B, 756/3A&3B, 756/4A&4B, 756/5A&5B, 756/6, 756/7, 756/8+9, 779,  
GIDC ESTATE JHAGADIA,  
DIST-BHARUCH.

SUB: Amendment in Consolidated Consent & Authorization (CC&A) under various Environmental Acts/ Rules.

REF: (1) Your application No. 270448 dated 17/01/2023.  
(2) CCA No. AWH - 119949 dated: 05/08/2022. (CCA Renewal)  
(3) CCA Amendment No. H - 119950 dated: 05/08/2022.  
(4) CTE Amendment No. CTE - 121129 dated: 30/12/2022.

Sir,

This has reference to the CCA order No: **AWH-119949**, issued vide letter no. **GPCB/ANK/CCA-1381(6)/ID-35534/680090**, dated **05/08/2022** and further amended dated **05/08/2022** under the provisions of the various Environmental Act/ Rules, which stands amended as under.

The Validity of this order will be up to **30/04/2029**.

1. The list of proposed products to be manufactured shall be as follows:

Sr. No.	Name of Products	Existing (MT/Year)	Proposed (MT/Year)	Total Quantity (MT/Year)
1	Hydrogen Gas	3000 Nm3/Hr.	0	3000 Nm3/Hr.
2	Purification of O/P/M Phenylene Di Amine	18000	0	18000
3	Calcium Chloride (Solid)	72000	0	72000
<b>I. A Group IA - Chlorination Products and its Derivatives</b>				
1	Mono-Chloro Benzene (MCB) Either/OR	72000	0	72000
2	Ortho Dichloro Benzene (ODCB) / Para Dichloro Benzene (PDCB) / Meta Dichloro Benzene (MDCB) Either/OR			

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3	1,2,3/1,2,4 Tri Chloro Benzene (TCB) Either/OR			
4	Ortho Chloro Toluene (OCT) / Para Chloro Toluene (PCT) Either/OR			
5	2-Chloro 4-Nitro Toluene Either/OR			
6	6-Chloro 2-Nitro Toluene/ 4-Chloro 2-Nitrotoluene Either/OR			
7	Crude of All Above Group I. A (Sr. No. 1-6 Chlorination Products)			
<b>I. B</b>	<b>Group I B - Chlorination Products and its Derivatives</b>			
1	2,4,6 Tri Chloro Aniline (TCAN) Either/OR			7200 (TCAN- Removed from IA Group and added in this Group-1B as per EC No. SEIAA/GUJ/EC/ 5(f)/1470/202 2 dated 30/05/2022)
2	Crude of All Above Group I. B (Sr. No. 1 Chlorination Products)	0	7200	
<b>II. A</b>	<b>Group IIA - Hydrogenated Products and its Derivatives</b>			
1	Ortho Toluidine/ Para Toluidine/ Meta Toluidine Either/OR			36000 (Added Sr. No. 16 as per EC No. SEIAA/GUJ/EC/ 5(f)/1470 /2022 dated 30/05/2022)
2	Meta Chloro Aniline/ Ortho Chloro Aniline/ Para Chloro Aniline Either/OR	36000	0	
3	3,4 DiChloro Aniline/ 2,3 DiChloro Aniline/ 2,5 DiChloro Aniline Either/OR			



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4	2,4 Dichloro Aniline/ 2,6 DiChloro Aniline/ 3,5 DiChloro Aniline Either/OR			
5	3,4 Diamino Diphenyl Ether / 4,4 Diamino Diphenyl Ether Either/OR			
6	Ortho Anisidine/ Para Anisidine/ Meta Anisidine Either/OR			
7	Chloro Fluoro Aniline Either/OR			
8	Ortho Cumidine/ Para Cumidine/ Meta Cumidine Either/OR			
9	Toluidines Either/OR			
10	Aniline Either/OR			
11	Para Fluoro Aniline/ Meta Fluoro Aniline/ Ortho Fluoro Aniline Either/OR			
12	1, 3 Di Fluoro Aniline/ 2, 4 Di Fluoro Aniline Either/OR			
13	1, 3 Di Fluoro Benzene Either/OR			
14	4- Fluoro-N-Isopropyl Aniline Either/OR			
15	4-Chloro-N-Isopropyl Aniline Either/OR			
16	Crude of all above Group II. A (Sr. No. 1-15 Hydrogenation product)			
<b>II. B</b>	<b>Group IIB - Hydrogenated Products and its Derivatives</b>			
1	2,4,5 Trichloroaniline Either/OR	36000	0	36000

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2	Meta Phenylene Di Amine/ Ortho Phenylene Di Amine/ Para Phenylene Di Amine Either/OR			( splitting existing Hydrogenated Product group as per EC No. <b>SEIAA/GUJ/EC/ 5(f)/1470/202 2 dated 30/05/2022</b>
3	Para Amino Phenol/ Meta Amino Phenol Either/OR			
4	Crude of all above Group II. B (Sr. No. 1-3 Hydrogenation product)	0		
III (as per EC- Gro up VI)	DAPBI ( 2 ( 4 amino phenyl - 1(H) - benzo(d) imidazol - 5 -amine))	0	420	
<b>By Product</b>				
1	Steam	136.56 MT/Day	0	136.56 MT/Day

## 2. **Specific conditions:**

- Unit shall dispose their primary treated effluent to CMEE-BEIL & M/s. Detox India up to 31/03/2024 and in this time unit shall complete installation of secondary advanced treatment system, biological treatment system, MEE, ATFD & RO and submit report on monthly basis to Board without fail.
- Unit shall comply all the conditions stipulated by SEIAA in the order of Environmental Clearance issued vide letter No. SEIAA/GUJ/EC/5(f)/1161/2021, dated: 02/07/2021 and further amended letter No. SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022.
- Unit shall receive Steam from M/s. Aarti Industries Limited (Unit-I) and M/s. DCM Ltd.
- Unit shall use fresh raw material only.
- Unit shall sell out their hazardous waste to authorized endusers who is having authorization with valid CCA and rule 9 permission to receive this waste. Unit shall make MoU with such authorized endusers and submit MoU.
- All the efforts shall be made to send hazardous waste to cement industry for Co-processing first & there after it shall be disposed through other option.
- Unit shall follow spent solvent management guideline framed by board and shall make MoU with outside distillation units, if any. Also submit the prescribed forms as per guideline.
- Unit shall strictly follow the Solid Fuel guideline framed by Board and shall install APCM as per guideline.



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- i) Unit shall follow coal handling guideline framed by Board and provide close ash handling facility.
- j) Unit shall strictly follow the Fly Ash Notification for disposal of generated ash.

### 3. CONDITION UNDER THE WATER ACT:

- 3.1 The condition No. 3.3 for Water Consumption under Water Act of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Water consumption		
	Existing	Proposed	Total
Domestic	65	60	125
Industrial	1250.28	3203	4453.28
Gardening	22	278	300
<b>Total</b>	<b>1337.28</b>	<b>3541</b>	<b>4878.28 (Fresh)</b>

- 3.2 The condition No. 3.1 & 3.2 for Wastewater Generation under Water Act of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Water (Qty: KL/day)	Wastewater Generation		
	Existing	Proposed	Total
Domestic	38	82	120
Industrial	177.84	378	555.84
<b>Total</b>	<b>215.84</b>	<b>460</b>	<b>675.84</b>

### 3.3 Mode of disposal of wastewater:

- a) Total 555.84 KLD industrial effluent, 347 KLD treated effluent sent to NCT-JPP pipeline.
- b) And 189.84 KLD sent to CMEE of M/s. Detox and M/s. BEIL. And remaining 19 MT/Day sludge shall be disposed of to common TSDF.
- c) 120 KLD domestic sewage shall be treated in STP for gardening/plantation purpose.

Sr. No.	PARAMETERS	PERMISSIBLE LIMIT
1	Biochemical Oxygen Demand, BOD <sub>5</sub> , 27° C	20 mg/L
2	Total Suspended Solids (TSS)	30 mg/L
3	Total Residual Chlorine	Minimum 0.5 ppm

- 3.4 The quality of industrial effluent shall conform to the following standards (as per GPCB norms, whichever is applicable) (For discharge into JPP pipeline) (For organic chemical)

Parameters	Max. permissible values (in milligram/liter except for pH and Temperature) for discharge of treated effluent into JPP
pH	6.5-8.5

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Biological Oxygen Demand, BOD <sub>5</sub> , 27° C	100
Chemical Oxygen Demand (COD)	250
Total Suspended Solids (TSS)	100
Temperature, ° C	Shall not exceed more than 5° C above ambient water temperature
Oil & Grease	10
Ammonical -Nitrogen	50
Total Kjeldahl Nitrogen (TKN)	50
Nitrate- Nitrogen	10
Flouride (F)	15
Sulphides, as S	2
Phenolic compounds (as C <sub>6</sub> H <sub>5</sub> OH)	5
Total Residual Chlorine	1
Zinc (Zn)	5
Iron (Fe)	3
Copper (Cu)	2
Trivalent Chromium	2
Manganese (Mn)	2
Nickel (Ni)	2
Arsenic (As)	0.2
Cyanide (CN)	0.2
Vanadium	0.2
Lead (Pb)	0.1
Hexavalent Chromium (Cr <sup>6+</sup> )	0.1
Selenium (Se)	0.05
Cadmium (Cd)	0.05
Mercury (Hg)	0.01
Total chromium (as Cr)	1
Bio-assay test	90 % Survival of fish after 96 hours in 100 % effluent.
Colour & Odor	All efforts shall be made to remove Colour & unpleasant odour as far as possible

**Note:** Though norms for COD are not mentioned here but, COD shall be monitored. If the COD in treated effluent exceeds 250 mg/l, the concerned industrial units discharging such effluent shall be required to identify chemicals responsible for high COD in effluent. In case, these are found to be toxic as defined under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989, the concerned industry shall install tertiary treatment system.

3.5 The effluent conforming to the above standards shall be discharged into onshore effluent conveying pipeline upto the Kantiyajal booster (Jhagadiya-to- Kantiyajal) Pumping Station, Village: Kantiyajal, Dist: Bharuch for ultimate disposal into deep Sea .



# GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN, SECTOR 10-A,

GANDHINAGAR - 382010,

(T) 079-23232152

- 3.6 Unit shall be required to make storage facilities to store the effluent for at least 72 hours by providing acid proof brick lined impervious tanks/HDPE tanks.
- 3.7 Unit shall implement & follow communication plan so that respected work can be done in minimum response time in case of emergencies.
- 3.8 Hydraulic Load given to member unit of NCT Jhagadia Pipeline Project is non-transferable i.e. member unit can not sell or buy hydraulic load to/from any other units. No addition / alteration of the booked volume shall be done without permission of the board.
- 3.9 Hydraulic load of unit shall be as per hydraulic load freezed as on 16/07/2021.
- 3.10 Unit shall provide online monitoring system for pH, TOC and TKN with recorder & magnetic flow meters for flow measurement of treated waste water.
- 3.11 Unit shall have only one authorized outlet over the ground with full access from outside the premises, as per design approved by NCT Jhagadia Pipeline Project authority.
- 3.12 In case of shut-down of plant for more than three (3) days for any reason, the NCT Jhagadia Pipeline Project member shall intimate to NCT Jhagadia Pipeline Project authority & GPCB well in advance for the better operation & management of pipeline.
- 3.13 Unit shall make fixed arrangement for discharge of the effluent from their Final collection tanks to the drainage network of NCT Jhagadia Pipeline. Unit shall not keep any by-pass line or system or loose or flexible pipe line for discharge of the effluent into drainage network of NCT Jhagadia Pipeline.
- 3.14 Magnetic flow meters shall be installed at the inlet & outlet of effluent collection tanks/ETP to measure the quantity of effluent discharged into the drainage network of NCT Jhagadia Pipeline.
- 3.15 Unit shall affix of water meters for the purpose of measuring and recording the quantity of water consumed at such places as may be required, within 15 days and it shall be presumed that the quantity indicated by the meter has been consumed by the unit until the contrary is proved.
- 3.16 Unit shall provide adequate / safe effluent sampling facility for the effluent being stored in final collection / discharge tank of ETP or being discharged into NCT Jhagadia Pipeline.
- 3.17 Unit shall put up at the entrance a board displaying the name of unit, particulars of the products/ process, the name of proprietor/partners /directors of the unit, NCT Jhagadia Pipeline Project membership number & date of joining of NCT Jhagadia Pipeline Project, the electricity consumer number as on the record of DGVCL.
- 3.18 Unit shall have to display on-line data outside the main factory gate with regard to and nature of hazardous chemicals being handled in the plant, including waste water and air emission and solid hazardous waste generated within the factory premises.

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- 3.19 Unit shall either stop or curtail its production activities if the effluent is not conforming to the standards of NCT Jhagadia Pipeline specified by GPCB.
- 3.20 The authorized representative of NCT Jhagadia Pipeline Project shall have right of entry at any time for the purpose of inspection and monitoring the effluent collection facilities/ETP (if required) of Unit.
- 3.21 Unit shall have to keep accurate records of quality & quantity of effluent discharged to NCT Jhagadia Pipeline on day-to-day basis. Separate logbook shall be maintained for recording the data & shall be made available for inspection as & when asked.
- 3.22 Unit shall keep accurate records of quantity of production of each product, quantity of water consumption, quantity of effluent generated and consumption of electricity on day to day basis and required to submit the complied record of each month to GPCB on or before fifth day of the succeeding month.
- 3.23 In case of incinerators or MEE, the flow measuring devices for mother liquor/ toxic effluent/ Non-biodegradable effluent, light diesel oil etc. i.e. fuel used for combustion, air used for combustion shall be separately provided. Incinerator temperature recording devices as well as gaseous flow measuring devices for scrubber shall also be provided. These data of temperature & flow should be recorded every day & submitted to GPCB on monthly basis.
- 3.24 Disposal system for storm water shall be provided separately. In no circumstances storm water shall be mixed with the industrial effluent.
- 3.25 Leachate from the hazardous solid waste, if any shall also be connected into a collection tank through leachate collection facilities and shall be treated along with industrial effluent and final treated effluent shall be discharged to the NCT Jhagadia Pipeline.
- 3.26 If the NCT Jhagadia Pipeline Project authority terminates the membership of Pipeline Project, the NCT Jhagadia Pipeline Project member unit shall have to close down the manufacturing activities/industrial operation of the process plant immediately until the NCT Jhagadia Pipeline Project membership is resumed.
- 3.27 The Environmental Management Unit/Cell shall be setup to ensure implementation on and monitoring of environment safeguards and other conditions stipulated by statutory authorities. The Environmental Management Cell / Unit shall directly report to the Chief Executive of the organization and shall work as a focal point for internalizing environmental issued. These Cells also coordinate the exercise of environmental audit and preparation of environmental statements.
- 3.28 The Environmental audit shall be carryout yearly, if applicable. The environmental statements pertaining to the previous year shall be submitting to this State Board latest by 30<sup>th</sup> June every year.



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- 3.29 Adequate plantation shall be carried out all along the periphery of the industrial premises in such a way that the density of plantation is at least 1000 trees per acre of land and a green belt of 5 meters width is developed.
- 3.30 In case of change of ownership/ management the name and address of the new ownership/ partners/ directors/ proprietor should immediately be intimate to the Board. Also any change in equipment or working conditions as mentioned in the consents form/ order should immediately be intimated to this Board.
- 3.31 The Board reserves the right to review and/or revoke the consent and / or make modifications in the conditions which it seems fit in accordance with provisions of Water Act-1974.

#### 4. CONDITIONS UNDER THE AIR ACT:

- 4.1 The condition No. 4.1 for Fuel Consumption under Air Act of the CCA order No: **AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022** is amended and shall now be read as under.

Sr. No.	Name of fuel	Quantity		
		Existing	Proposed	Total
1	HSD	1850 lit/hr.	2199 lit/hr.	4049 lit/hr.
2	Coal/ Coal+ Briquettes	4.1 MT/hr.	--	4.1 MT/hr.
3	Steam from Aarti Ind. Ltd. (U-1)	15 TPH	75 TPH	90 TPH
4	Steam from DCM Shriram Ltd.	--		
5	Natural Gas	--	60 SM3/hr.	60 SM3/hr.

\* Unit shall receive steam from M/s. Aarti Ind. Ltd. (U-1) and M/s. DCM Ltd. and Water shall be supplied accordingly.

- 4.2 The condition No. 4.2 for Flue gas stacks under Air Act of the CCA order No: **AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022** is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
<b>Total after expansion</b>					
1	D G Set (650 KVA-2 Nos)	11 (each)	--	PM SO2 NOx	150 mg/NM <sup>3</sup> 100 ppm 50 ppm
	D G Set (320 KVA)	11			
3	D G Set (1010 KVA-6 Nos)	11 (each)			

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4	DG Set (1250 KVA)	11			
5	D G Set (1500 KVA-3 Nos)	11 (each)			
6	Hot Air generator	33	Cyclone Separator, Bag Filter & Water/dry Scrubber		
7	TFH (40 Lacs K.cal/Hr)	30	Bag Filter		
8	TFH (4 Lacs K.cal/Hr)	15	--		

4.3 The condition No. 4.3 for Process gas stacks under Air Act of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Stack No.	Stack attached to	Stack Height in Meter	Air Pollution Control Measure (APCM)	Parameter	Permissible limit
<b>Existing</b>					
1	Reformer (Hydrogen)	26	--	CO	150 mg/Nm <sup>3</sup>
2	CaCO <sub>3</sub> Reactor (CaCl <sub>2</sub> plant)	23	Alkali Scrubber	HCL	20 mg/Nm <sup>3</sup>
3	CaCl <sub>2</sub> Dryer Vent (CaCl <sub>2</sub> plant)	20	Wet Scrubber	PM	150 mg/Nm <sup>3</sup>
4	Chlorinator Reactor vent	30	Falling Film absorber (Water) followed by Alkali Scrubber	HCl Chlorine	20 mg/Nm <sup>3</sup> 9 mg/Nm <sup>3</sup>
<b>Proposed</b>					
1	CLB-Cl <sub>2</sub> Scrubber (Storage/Pipeline)	15	Caustic Scrubber	Cl <sub>2</sub>	9 mg/Nm <sup>3</sup>
2	CLB - PDCB Scrubber (Storage)	15	Single Stage, ODCB	VOC	--
3	CLB - HCl Scrubber (Storage)	15	HCl absorber followed by	HCl	20 mg/Nm <sup>3</sup>



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			Caustic scrubber		
4	HCl Scrubber (Storage)	15	Caustic scrubber	HCL	20 mg/Nm <sup>3</sup>
5	TCB Scrubber	15	HCl absorber followed by caustic scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 9 mg/Nm <sup>3</sup>
6	TCB-ODCB Scrubber (Storage)	15	Single Stage, ODCB	VOC	--
7	Group IB: Chlorination Products and its Derivatives	15	HCl absorber followed by caustic scrubber	HCl Cl <sub>2</sub>	20 mg/Nm <sup>3</sup> 9 mg/Nm <sup>3</sup>
8	DAPBI Process	15	Water Scrubber followed by Alkali Scrubber	HCl	20 mg/Nm <sup>3</sup>
9	DAPBI Process	15	Acidic Scrubber	NH <sub>3</sub>	175 mg/Nm <sup>3</sup>
10	ETP Scrubber	15	Acidic Scrubber	NH <sub>3</sub>	175 mg/Nm <sup>3</sup>

- 4.4 The concentration of the following parameters in the ambient air within the premises of the industry shall not exceed the limits specified hereunder.

Sr. No.	Parameters	Permissible Limit (microgram / M <sup>3</sup> )	
		Annual	24 Hours Average
1.	Particulate Matter (PM <sub>10</sub> )	60	100
2.	Particulate Matter (PM <sub>2.5</sub> )	40	60
3.	Oxides of Sulphur (SO <sub>x</sub> )	50	80
4.	Oxides of Nitrogen (NO <sub>x</sub> )	40	80

- Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.
- 24 hourly or 08 hourly or 01 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

- 4.6 Unit shall operate industrial plant / air pollution control equipment very efficiently and continuously so that the gaseous emission always conforms to the standards specified in condition as above.

## 5 CONDITIONS UNDER HAZARDOUS & OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) RULES, 2016

- 5.1 Unit shall comply with provisions of Hazardous & Other Wastes (Management & Transboundary Movement) Rules-2016.

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5.2 The condition No. 6.2 under authorization for Hazardous & other wastes of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 is amended and shall now be read as under.

Sr. No.	Name of Haz. Waste	Cate. Num.	Quantity in MT/Year			Facility
			Exi.	Pro.	Total	
1	ETP waste	35.3	--	6935	6935	Generation, Collection, Storage, Transportation, & disposal to TSDF site OR Co-Processing at cement industry.
2	Silica Sludge	35.3	8640	3067	11707	Generation, Collection, Storage, Transportation, disposal to common TSDF, OR Pre-Processing OR Co-Processing at cement industry
3	Used Oil / Waste Oil	5.1	25	15	40	Generation, Collection, Storage, Transportation and Disposal by Reuse in plant & machinery as lubricant or sell it to authorized re-refiners / recycler.
4	Empty barrels/ containers/ liners contaminate d with hazardous chemicals /wastes	33.1	50	250	300	Generation, Collection, Storage, Transportation, decontamination, disposal by sending back to raw material supplier OR sale to registered recyclers/reuse back OR disposal at TSDF OR Pre-Processing OR Co-Processing at cement industry
5	Distillation residue waste Process residue	36.1/ 26.1	1404 1117	7094	9615	Generation, Collection, Storage, Transportation, disposal by CHWIF, OR Pre-Processing OR Co-Processing
6	Spent Catalyst	26.5	235	65	300	Generation, Collection, storage, transportation & disposal by sale to registered regenerators/ TSDF Site.
7	Hydrochloric Acid (HCl)	B15	145272	14477	159749	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9



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						permission to receive this waste after making MoU. <b>OR</b> Collection, Storage, transportation & reused in manufacturing of CaCl <sub>2</sub> .
8	Sodium Hypochlorite (NaOCl)	B7	2148	--	2148	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
9	Sodium Chloride (NaCl)	B36	--	38646	38646	Generation, Collection, storage, transportation & send to TSDF site for landfill.
10	Calcium Chloride solution	C2	--	58000	58000	Generation, Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
11	Spent Carbon	36.2	--	400	400	Generation, Collection, Storage, transportation, sent for co-processing/ incineration.
12	Off specification Product	26.1	24	121	145	Generation, Collection, Storage, Transportation, disposal by CHWIF OR Pre-Processing OR Co-Processing at cement industry.
13	PPE's Waste, Non Recyclable plastic waste	33.2	25	175	200	Generation, Collection, Storage, Transportation, disposal to Land filling OR Co-Processing at cement industry.
14	Mix Solid waste (Contaminated Cotton Waste, Paper Waste, Woods waste, Non Recyclable plastics/ PPE's etc.)	--	--	150	150	Generation, Collection, Storage, Transportation disposal to incineration OR Co-Processing at cement industry.

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15	Stripper TOP Containing Organic Content	26.1	--	1095	1095	Generation, Collection, Storage, Transportation disposal to incineration/ Co-Processing.
16	Spent Solvent	26.4	--	35	35	Generation, Collection, Storage, Transportation disposal to incineration/Co-Processing OR Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission.
17	Asbestos waste	15.2	80	--	80	Generation, Collection, Storage, Transportation disposal by at TSDF Site.
18	Ammonia Solution	--	--	480	480	Collection, Storage and reuse in the same process OR Collection, Storage, Transportation and Disposal by sell out to authorized users who is having authorization with valid CCA and rule 9 permission to receive this waste after making MoU.
19	Waste or residue containing Oil	5.2	10	--	10	Generation, Collection, Storage, Transportation, disposal by CHWIF OR Pre-Processing OR Co-Processing at cement industry
<b>Non-Hazardous Waste:</b>						
1	Fly Ash	-	2000	1000	3000	Generation, Collection, Storage, Transportation, Sold to Brick Manufacturer OR other use i.e road construction OR Co-Processing at cement industry
2	Mixed Waste (Office Paper, paperboard and paper product wastes, plastic waste etc.)	-	15	135	150	Generation, Collection, Storage, Transportation & disposal at TSDF Site/ Incineration/OR Co-Processing at cement industry.
3	Insulation waste/ Thermocol	S1/ S3	44	106	150	Generation, Collection, Storage, Transportation, disposal to common TSDF



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4	E-Waste/ Electrical Waste	--	15	10	25	Generation, Collection, Storage, Transportation and disposal to registered recyclers
5	Battery waste	--	20 Nos	1500 Nos.	1520 Nos	Generation, Collection, Storage, Transportation, Disposal by selling to authorized recyclers
6	Bio-medical waste	--	--	1	1	Generation, Collection, Storage, Transportation, Disposal to CBWTF- Incineration
7	Glass	S7	10	2	12	Collection, Storage, Transportation, disposal /sold to scrap processors
8	STP Waste (Sludge)	--	--	120	120	Collection, Storage, Transportation disposal as manure.

- 6 All other conditions of the CCA order No: AWH-119949, issued vide letter no. GPCB/ ANK/ CCA-1381(6)/ ID-35534/680090, dated 05/08/2022 and further amended dated 05/08/2022 will remain same.

For and on behalf of  
GUJARAT POLLUTION CONTROL BOARD

*Arun G. Patel*  
28/06/2023  
(Arun G. Patel)  
ENVIRONMENT ENGINEER

Outward No: 746053, 28/06/2023

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**Annexure-15**

**Photographs of Flow Meter**



**Inlet of ETP**






**Outlet of ETP**



Flowmeter at NCT Discharge Point

## Annexure-16

### Photographs of ETP-STP Logbook

AARTI INDUSTRIES LIMITED									
Plot No. Plot No: 756/2A&B,756/3A&B,756/4A&B,756/5A&B,756/6,756/7,756/8+9 & 779, GIDC Estate Jhagadia, Dist-Bharuch.									
Logsheets : Industrial Effluent generation & Energy reading									
Date : 20/08/24									
Process Effluent Reading					Utility Effluent Reading				
Plant / Section	Initial Reading	Final Reading	Diff (KL)		Plant / Section	Initial Reading	Final Reading	Diff (KL)	
Buss-IV	682677	656947	24.270		Gold CTBD	1279450	1279450	00	
CLB	11682	11682	00		Gold ETP CTBD	-	-	-	
TCAN	-	-	-		DM Plant	10536500	10648900	112400	
TCB	1168394.64	1168394.64	00		Unit-2 Common CTBD	7538780	7572010	33230	
DCPNA	-	-	-		2,5 DCNB CTBD	APPDOK	-	15 KL	
2,5 DCNB	8100080	8100080	00						
Gold	APPDOK	-	6.9						
<b>Total (KL)</b>			<b>31.17</b>		<b>Total (KL)</b>			<b>160.63</b>	
Electrical Consumption in ETP (MCC Panel)					Effluent Discharge Details				
Panel No	Initial Reading	Final Reading	Diff (Kwh)		Section	Initial Reading	Final Reading	Diff (KL)	
MCC 2A	335514.822	336505.163	990.341		NCTL	4844.23	48648.03	203.8	
MCC 2B	12659.596	129622.715	370.119		ETP CMEE-1	6633.3	6636.8	25.5	
MCC 2C	1053.862	1056.328	2.466		Gravim CMEE-2	1259.9	1260	0.1	
MCC 2D	98460.390	100863.445	2403.055		Pr72 CMEE-3	4230.8	4280	49.2	
MCC 2J	44389.889	44555.025	165.136						
<b>Total (Kwh)</b>			<b>6431.131</b>		<b>Total (KL)</b>			<b>248.6</b>	
Sr. No.	Role	Name	Signature	Remarks					
1	Shift Incharge	Romak							
2	Section Incharge	Laxmi Shyam							
3	Plant Manager	J.R. Gadh							

ETP Logbook

AARTI INDUSTRIES LIMITED, JHAGADIA																	
DATE	TIME	SHIFT	STP3 LOG SHEET				FEED MITER READING				TREATED WATER READING				REMARKS		
			FEED FLOW (LPH)	PARAMETER FLOW (LPH)	BACKWASH FLOW (LPH)	WACCUME SAUGE	INITIAL	FINAL	DAY	TOTAL	INITIAL	FINAL	DAY	TOTAL		BACK WASH PRESSURE	SOLID SETTLING
20/08/24	06:00	A	1000	2000	2000	4000	0.5	300000	300000	Wed	30.5	300000	300000	Wed	30.5	0.00	500
20/08/24	07:00	A	1000	2000	2000	4000	0.5	300000	300000	Thu	30.5	300000	300000	Thu	30.5	0.00	500
20/08/24	08:00	A	1000	2000	2000	4000	0.5	300000	300000	Fri	30.5	300000	300000	Fri	30.5	0.00	500
20/08/24	09:00	A	1000	2000	2000	4000	0.5	300000	300000	Sat	30.5	300000	300000	Sat	30.5	0.00	500
20/08/24	10:00	A	1000	2000	2000	4000	0.5	300000	300000	Sun	30.5	300000	300000	Sun	30.5	0.00	500
20/08/24	11:00	A	1000	2000	2000	4000	0.5	300000	300000	Mon	30.5	300000	300000	Mon	30.5	0.00	500
20/08/24	12:00	A	1000	2000	2000	4000	0.5	300000	300000	Tue	30.5	300000	300000	Tue	30.5	0.00	500
20/08/24	13:00	A	1000	2000	2000	4000	0.5	300000	300000	Wed	30.5	300000	300000	Wed	30.5	0.00	500
20/08/24	14:00	A	1000	2000	2000	4000	0.5	300000	300000	Thu	30.5	300000	300000	Thu	30.5	0.00	500
20/08/24	15:00	A	1000	2000	2000	4000	0.5	300000	300000	Fri	30.5	300000	300000	Fri	30.5	0.00	500
20/08/24	16:00	A	1000	2000	2000	4000	0.5	300000	300000	Sat	30.5	300000	300000	Sat	30.5	0.00	500
20/08/24	17:00	A	1000	2000	2000	4000	0.5	300000	300000	Sun	30.5	300000	300000	Sun	30.5	0.00	500
20/08/24	18:00	A	1000	2000	2000	4000	0.5	300000	300000	Mon	30.5	300000	300000	Mon	30.5	0.00	500
20/08/24	19:00	A	1000	2000	2000	4000	0.5	300000	300000	Tue	30.5	300000	300000	Tue	30.5	0.00	500
20/08/24	20:00	A	1000	2000	2000	4000	0.5	300000	300000	Wed	30.5	300000	300000	Wed	30.5	0.00	500
20/08/24	21:00	A	1000	2000	2000	4000	0.5	300000	300000	Thu	30.5	300000	300000	Thu	30.5	0.00	500
20/08/24	22:00	A	1000	2000	2000	4000	0.5	300000	300000	Fri	30.5	300000	300000	Fri	30.5	0.00	500
20/08/24	23:00	A	1000	2000	2000	4000	0.5	300000	300000	Sat	30.5	300000	300000	Sat	30.5	0.00	500
20/08/24	00:00	A	1000	2000	2000	4000	0.5	300000	300000	Sun	30.5	300000	300000	Sun	30.5	0.00	500
20/08/24	01:00	A	1000	2000	2000	4000	0.5	300000	300000	Mon	30.5	300000	300000	Mon	30.5	0.00	500
20/08/24	02:00	A	1000	2000	2000	4000	0.5	300000	300000	Tue	30.5	300000	300000	Tue	30.5	0.00	500
20/08/24	03:00	A	1000	2000	2000	4000	0.5	300000	300000	Wed	30.5	300000	300000	Wed	30.5	0.00	500
20/08/24	04:00	A	1000	2000	2000	4000	0.5	300000	300000	Thu	30.5	300000	300000	Thu	30.5	0.00	500
20/08/24	05:00	A	1000	2000	2000	4000	0.5	300000	300000	Fri	30.5	300000	300000	Fri	30.5	0.00	500

STP Logbook



## Annexure-17

### Flue Gas Stack Emission Monitoring Results

Sr No	Location*	Parameter	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
1	DG Set 1 - 1010 KVA	PM	68.8	73.2	81.2	72.8	78.3	72.8
		SOX	8.6	6.6	5.2	6.2	5.7	6.2
		NOX	38.4	40.1	37.4	30.2	38.6	40.6
2	DG Set 2 - 1010 KVA	PM	71.6	81.6	76.9	80.4	80.6	77.9
		SOX	7.5	8.1	6.2	5.8	6.2	7.1
		NOX	30.5	37.2	40.1	38.6	41.2	38.8
3	DG Set 3- 650 KVA	PM	86.3	72.9	80.4	70.6	66.9	72.8
		SOX	8.8	7.6	6.6	7.1	7.4	6.8
		NOX	32.8	33.9	38.5	35.2	38.6	41.2
4	DG Set 4- 650 KVA	PM	72.8	77.5	72.6	68.3	78.6	71.6
		SOX	6.6	5.8	5.8	6.6	6.2	5.4
		NOX	36.5	39.4	32.9	36.6	39.8	37.6
5	DG Set 5- 1250 KVA	PM	70.5	68.8	71.8	81.8	84.2	69.8
		SOX	10.2	6.2	7.1	5.8	6.6	8.1
		NOX	37.2	36.7	35.6	38.1	36.6	42.1
6	DG Set 6 - 1010 KVA	PM	82.3	73.2	70.9	76.9	80.8	75.1
		SOX	8.3	6.6	6.4	8.2	5.8	7.5
		NOX	35.5	39.2	37.1	33.9	40.4	37.6
7	DG Set 7 - 1010 KVA	PM	65.9	80.1	83.2	87.2	76.9	78.4
		SOX	6.1	7.8	7.2	7.6	5.2	8.2
		NOX	32.1	34.7	36.8	38.1	36.8	32.9
8	DG Set 8 - 1010 KVA	PM	34.7	38.2	34.1	30.1	27.2	32.7
		SOX	6.6	5.8	6.6	5.8	6.6	6.1
		NOX	30.6	31.2	28.6	31.8	35.6	39.6
9	DG Set 9 - 1010 KVA	PM	83.2	79.2	81.8	77.4	82.4	81.8
		SOX	5.8	8.2	5.8	5.1	6.4	5.6
		NOX	32.1	36.8	33.9	36.4	33.5	38.5
10	DG Set 10 - 320 KVA	PM	80.6	83.1	76.4	82.1	76.9	84.6
		SOX	6.6	7.2	7.1	6.6	7.2	8.2
		NOX	33.8	35.2	38.1	35.6	39.4	37.1
11	DG Set 11 - 1500 KVA	PM	85.1	80.7	82.9	76	70.4	79.2
		SOX	8.2	8.1	5.6	6.8	5.8	7.4
		NOX	36.5	40.1	36.5	31.9	36.8	39.4
12	DG Set 12 - 1500 KVA	PM	73.6	76.8	85.8	81.3	86.2	82.8
		SOX	7.1	6.6	6.2	5.8	6.4	6.6
		NOX	32.8	38.6	39.1	42.2	40.1	38.2
13	DG Set 13 - 1500 KVA	PM	73.1	84.1	73.6	72.7	65.9	71.6
		SOX	6.2	7.8	6.8	7.6	6.8	5.1
		NOX	39.1	34.9	37.2	40.1	42.8	30.6

14	Thermic Fluid Heater (40 Lac KCal/Hr)	PM	72.6	80.9	72.8	81.6	92.4	79.4
		SOX	60.2	71.2	64.1	72.6	60.8	68.2
		NOX	31.6	38.4	38.8	38.6	36.8	41.9
15	Thermic Fluid Heater (4 Lac KCal/Hr)	PM	BDL	BDL	3.4	2.8	3.1	3.3
		SOX	BDL	BDL	BDL	BDL	BDL	BDL
		NOX	32.1	36.1	32.8	28.6	33.2	29.6
16	Hot Air Generator	PM	28.6	31.1	22.7	26.2	20.6	24.2
		SOX	20.5	32.8	24.8	18.6	21.8	20.8
		NOX	35.1	36.8	39.1	41.4	38.2	40.8
17	DG Set 14 - 1500 KVA	PM	72.6	86.2	86.2	72.2	86.4	80.5
		SOX	6.2	6.6	5.8	6.1	5.2	6.6
		NOX	35.4	39.1	37.3	32.6	38.6	40.1
18	DG Set 15 - 1500 KVA	PM	70.6	71.8	79.6	84.1	71.6	82.6
		SOX	6.8	5.8	6.2	5.8	6.1	5.2
		NOX	32.8	40.6	35.3	38.2	36.2	39.4

\*The above mentioned data is for existing facilities only. For remaining facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003823F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-030</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/030	<b>Service Request Date</b>	14/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/030	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/030
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	14/03/2024	<b>Date of Testing</b>	15/03/2024
<b>Stack Sampling Attached to</b>	<b>Thermic Fluid Heater (40 Lac Kcal/Hr)</b>		
<b>Air Pollution Control Device</b>	<b>Bag Filter</b>		
<b>Fuel Used</b>	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	1350
3.	Stack Area	m <sup>2</sup>	1.4320
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	139
6.	Exit Gas Velocity	m/s	9.8
7.	Exit Gas Flow	m <sup>3</sup> /h	50519.7

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	79.4	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	68.2	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	41.9	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

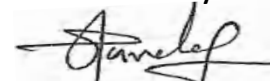
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-030	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/030	Service Request Date	14/03/2024
Sample ID No.	URA/ID/S-24/03/030	Field Data Sheet No.:	URA/FDS/S-24/03/030
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	14/03/2024	Date of Testing	15/03/2024
Stack Sampling Attached to	<b>Thermic Fluid Heater (40 Lac Kcal/Hr)</b>		
Air Pollution Control Device	<b>Bag Filter</b>		
Fuel Used	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Dia	mm	1350
3.	Stack Area	m <sup>2</sup>	1.4320
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	139
6.	Exit Gas Velocity	m/s	9.8
7.	Exit Gas Flow	m <sup>3</sup> /h	50519.7

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.2	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

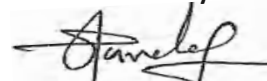
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003805F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-010</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/010	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/010	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/010
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	12/03/2024	<b>Date of Testing</b>	13/03/2024
<b>Stack Sampling Attached to Air Pollution Control Device</b>	<b>Thermic Fluid Heater (4 Lac Kcal/Hr)</b>		
<b>Fuel Used</b>	<b>Natural Gas</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	149
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m <sup>3</sup> /h	1369.0

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	3.3	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	BDL (MDL:5.0)	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	29.6	<b>50</b>	IS 11255 (Part 7)

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

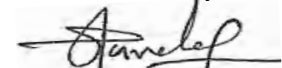
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-010</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/010	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/010	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/010
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>Thermic Fluid Heater (4 Lac Kcal/Hr)</b>		
Air Pollution Control Device	--		
Fuel Used	<b>Natural Gas</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	149
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m <sup>3</sup> /h	1369.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	2.8	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

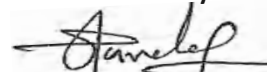
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003828F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-035</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/035	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/035	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/035
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>Hot Air Generator</b>		
<b>Air Pollution Control Device</b>	<b>Bag Filter + Wet Scrubber</b>		
<b>Fuel Used</b>	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	33
2.	Stack Diameter	mm	1000
3.	Stack Area	m <sup>2</sup>	0.7857
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	79
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	m <sup>3</sup> /h	31680.0

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	24.2	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	20.8	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	40.8	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

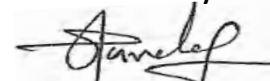
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-035	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/035	Service Request Date	15/03/2024
Sample ID No.	URA/ID/S-24/03/035	Field Data Sheet No.:	URA/FDS/S-24/03/035
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>Hot Air Generator</b>		
Air Pollution Control Device	<b>Bag Filter + Wet Scrubber</b>		
Fuel Used	<b>Coal</b>		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	33
2.	Stack Diameter	mm	1000
3.	Stack Area	m <sup>2</sup>	0.7857
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	79
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	m <sup>3</sup> /h	31680.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	3.9	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

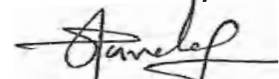
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003806F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-011</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/011	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/011	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/011
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	12/03/2024	<b>Date of Testing</b>	13/03/2024
<b>Stack Sampling Attached to</b>	<b>HCl Scrubber (Storage)</b>		
<b>Air Pollution Control Device</b>	<b>Alkali Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	100
3.	Stack Area	m <sup>2</sup>	0.0079
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	32
6.	Exit Gas Velocity	m/s	2.8
7.	Exit Gas Flow	m <sup>3</sup> /h	79.2

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	3.1	20	UERL/AIR/SOP/07

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

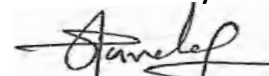
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-011	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/011	Service Request Date	12/03/2024
Sample ID No.	URA/ID/S-24/03/011	Field Data Sheet No.:	URA/FDS/S-24/03/011
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>HCI Scrubber (Storage)</b>		
Air Pollution Control Device	<b>Alkali Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	100
3.	Stack Area	m <sup>2</sup>	0.0079
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	32
6.	Exit Gas Velocity	m/s	2.8
7.	Exit Gas Flow	m <sup>3</sup> /h	79.2

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

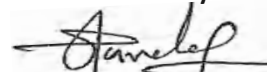
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

<b>ULR - TC77532400003807F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-012</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/012	<b>Service Request Date</b>	12/02/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/012	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/012
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	12/03/2024	<b>Date of Testing</b>	13/03/2024
<b>Stack Sampling Attached to</b>	<b>CaCO<sub>3</sub> Reactor</b>		
<b>Air Pollution Control Device</b>	<b>Alkali Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	32
6.	Exit Gas Velocity	m/s	2.9
7.	Exit Gas Flow	m <sup>3</sup> /h	328.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	2.2	09	UERL/AIR/SOP/07

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

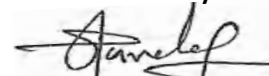
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-012</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/012	<b>Service Request Date</b>	12/02/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/012	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/012
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>CaCO<sub>3</sub> Reactor</b>		
Air Pollution Control Device	<b>Alkali Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	23
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	31
5.	Flue Gas Temperature	°C	32
6.	Exit Gas Velocity	m/s	2.9
7.	Exit Gas Flow	m <sup>3</sup> /h	328.1

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

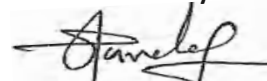
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003829F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-036</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/036	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/036	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/036
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>CaCl<sub>2</sub> Dryer Vent</b>		
<b>Air Pollution Control Device</b>	<b>Wet Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	20
2.	Stack Diameter	mm	1900
3.	Stack Area	m <sup>2</sup>	2.8364
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	69
6.	Exit Gas Velocity	m/s	9.4
7.	Exit Gas Flow	m <sup>3</sup> /h	95984.7

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	121.6	<b>150</b>	IS 11255 (Part 1)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

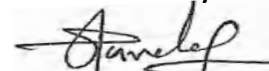
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-036</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/036	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/036	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/036
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>CaCl<sub>2</sub> Dryer Vent</b>		
Air Pollution Control Device	<b>Wet Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	20
2.	Stack Diameter	mm	1900
3.	Stack Area	m <sup>2</sup>	2.8364
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	69
6.	Exit Gas Velocity	m/s	9.4
7.	Exit Gas Flow	m <sup>3</sup> /h	95984.7

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

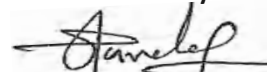
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003817F</b>			
<b>Test Report No.</b>	<b>URA/24/01/AIL-J/S-023</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/01/023	<b>Service Request Date</b>	13/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/01/023	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/01/023
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	13/03/2024	Date of Testing	14/13/2024
Stack Sampling Attached to Air Pollution Control Device	<b>S-12, Reformer</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	26
2.	Stack Diameter	mm	800
3.	Stack Area	m <sup>2</sup>	0.5029
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	236
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	m <sup>3</sup> /h	18827.0

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Carbon Monoxide (CO)	mg/Nm <sup>3</sup>	28	<b>150</b>	UERL/AIR/SOP/18

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

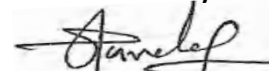
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandell**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/01/AIL-J/S-023</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/01/023	<b>Service Request Date</b>	13/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/01/023	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/01/023
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	13/03/2024	Date of Testing	14/13/2024
Stack Sampling Attached to	<b>S-12, Reformer</b>		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	26
2.	Stack Diameter	mm	800
3.	Stack Area	m <sup>2</sup>	0.5029
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	236
6.	Exit Gas Velocity	m/s	10.4
7.	Exit Gas Flow	m <sup>3</sup> /h	18827.0

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	4.2	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

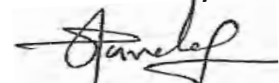
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003830F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-037</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/037	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/037	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/037
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>Chlorination Reactor Vent</b>		
<b>Air Pollution Control Device</b>	<b>Falling Film Absorber followed by Alkali Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	33
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m <sup>3</sup> /h	441.3

➤ **Test Parameter Results**

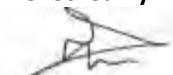
DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	2.7	<b>20</b>	UERL/AIR/SOP/07
2.	Chlorine as Cl <sub>2</sub>	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>09</b>	SA EPA Method

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

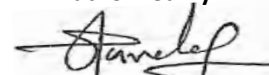
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-037	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/037	Service Request Date	15/03/2024
Sample ID No.	URA/ID/S-24/03/037	Field Data Sheet No.:	URA/FDS/S-24/03/037
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>Chlorination Reactor Vent</b>		
Air Pollution Control Device	<b>Falling Film Absorber followed by Alkali Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	30
5.	Flue Gas Temperature	°C	33
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m <sup>3</sup> /h	441.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

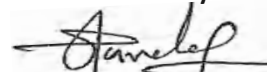
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003831F</b>			
Test Report No.	URA/24/03/AIL-J/S-038	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/038	Service Request Date	15/03/2024
Sample ID No.	URA/ID/S-24/03/038	Field Data Sheet No.:	URA/FDS/S-24/03/038
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>CLB - HCl Scrubber</b>		
Air Pollution Control Device	<b>Caustic Solution</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	750
3.	Stack Area	m <sup>2</sup>	0.4420
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.6
7.	Exit Gas Flow	m <sup>3</sup> /h	5727.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>20</b>	UERL/AIR/SOP/07

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

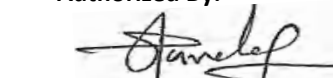
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-038</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/038	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/038	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/038
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>CLB - HCl Scrubber</b>		
Air Pollution Control Device	<b>Caustic Solution</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	750
3.	Stack Area	m <sup>2</sup>	0.4420
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.6
7.	Exit Gas Flow	m <sup>3</sup> /h	5727.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

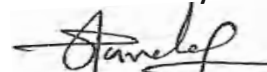
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003832F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-039</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/039	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/039	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/039
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>CLB - Chlorine Scrubber</b>		
<b>Air Pollution Control Device</b>	<b>Caustic Solution</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	18
2.	Stack Diameter	mm	250
3.	Stack Area	m <sup>2</sup>	0.0491
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m <sup>3</sup> /h	689.5

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Chlorine as Cl <sub>2</sub>	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>09</b>	SA EPA Method

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

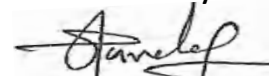
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-039	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/039	Service Request Date	15/03/2024
Sample ID No.	URA/ID/S-24/03/039	Field Data Sheet No.:	URA/FDS/S-24/03/039
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>CLB - Chlorine Scrubber</b>		
Air Pollution Control Device	<b>Caustic Solution</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	18
2.	Stack Diameter	mm	250
3.	Stack Area	m <sup>2</sup>	0.0491
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	3.9
7.	Exit Gas Flow	m <sup>3</sup> /h	689.5

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

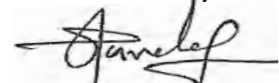
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-040	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/040	Service Request Date	15/03/2024
Sample ID No.	URA/ID/S-24/03/040	Field Data Sheet No.:	URA/FDS/S-24/03/040
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	15/03/2024	Date of Testing	16/03/2024
Stack Sampling Attached to	<b>CLB-PDCB Scrubber Storage</b>		
Air Pollution Control Device	<b>Single Stage, ODCB</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>23/06/2022</b>	Next Cali. Due On:	<b>22/06/2023</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	50.8
3.	Stack Area	m <sup>2</sup>	0.0020
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	5.4
7.	Exit Gas Flow	m <sup>3</sup> /h	39.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	6.2	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

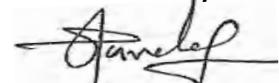
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003808F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-013</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/013	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/013	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/013
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	12/03/2024	<b>Date of Testing</b>	13/03/2024
<b>Stack Sampling Attached to</b>	<b>TCB (2 Stage Scrubber)</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	50.8
3.	Stack Area	m <sup>2</sup>	0.0020
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.5
7.	Exit Gas Flow	m <sup>3</sup> /h	25.5

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	3.8	<b>20</b>	UERL/AIR/SOP/07
2.	Chlorine as Cl <sub>2</sub>	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>09</b>	SA EPA Method

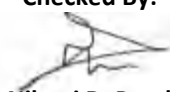
**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

**Remarks:**

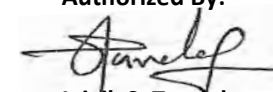
**Opinion & Interpretation (if required):** BDL: Below Detection Limit

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-013</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/013	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/013	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/013
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>TCB (2 Stage Scrubber)</b>		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	50.8
3.	Stack Area	m <sup>2</sup>	0.0020
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.5
7.	Exit Gas Flow	m <sup>3</sup> /h	25.5

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

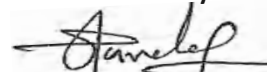
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-014	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/014	Service Request Date	12/03/2024
Sample ID No.	URA/ID/S-24/03/014	Field Data Sheet No.:	URA/FDS/S-24/03/014
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>TCB ODCB Scrubber</b>		
Air Pollution Control Device	--		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	76.5
3.	Stack Area	m <sup>2</sup>	0.0046
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	33
6.	Exit Gas Velocity	m/s	3.8
7.	Exit Gas Flow	m <sup>3</sup> /h	62.9

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	5.5	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

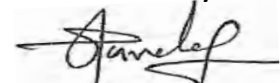
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003809F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-015</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/015	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/015	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/015
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	12/03/2024	<b>Date of Testing</b>	13/03/2024
<b>Stack Sampling Attached to</b>	<b>Group IB: Chlorination Products and its Derivatives Scrubber</b>		
<b>Air Pollution Control Device</b>	<b>Falling Film Absorber followed by Alkali Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	5.2
7.	Exit Gas Flow	m <sup>3</sup> /h	588.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	3.1	<b>20</b>	UERL/AIR/SOP/07
2.	Chlorine as Cl <sub>2</sub>	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>09</b>	SA EPA Method

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

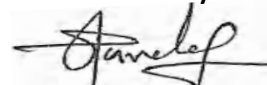
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT  
(STACK MONITORING)**

<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-015</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/015	<b>Service Request Date</b>	12/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/015	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/015
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	12/03/2024	Date of Testing	13/03/2024
Stack Sampling Attached to	<b>Group IB: Chlorination Products and its Derivatives Scrubber</b>		
Air Pollution Control Device	<b>Falling Film Absorber followed by Alkali Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	30
2.	Stack Diameter	mm	200
3.	Stack Area	m <sup>2</sup>	0.0314
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	34
6.	Exit Gas Velocity	m/s	5.2
7.	Exit Gas Flow	m <sup>3</sup> /h	588.3

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

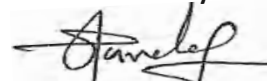
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003841F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-049</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/049	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/049	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/049
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	19/03/2024	<b>Date of Testing</b>	20/03/2024
<b>Stack Sampling Attached to</b>	<b>DAPBI Process Scrubber</b>		
<b>Air Pollution Control Device</b>	<b>Alkali Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m <sup>2</sup>	0.0182
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.8
7.	Exit Gas Flow	m <sup>3</sup> /h	249.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Hydrochloric Acid (HCl)	mg/Nm <sup>3</sup>	2.8	<b>20</b>	UERL/AIR/SOP/07
2.	Chlorine as Cl <sub>2</sub>	mg/Nm <sup>3</sup>	BDL (MDL:1.0)	<b>09</b>	SA EPA Method


**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

**Remarks:**

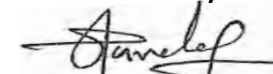
**Opinion & Interpretation (if required):** BDL: Below Detection Limit

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jaivik S. Tandell**  
(Manager - Operations)



**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-049	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/049	Service Request Date	19/03/2024
Sample ID No.	URA/ID/S-24/03/049	Field Data Sheet No.:	URA/FDS/S-24/03/049
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	19/03/2024	Date of Testing	20/03/2024
Stack Sampling Attached to	<b>DAPBI Process Scrubber</b>		
Air Pollution Control Device	<b>Alkali Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m <sup>2</sup>	0.0182
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	3.8
7.	Exit Gas Flow	m <sup>3</sup> /h	249.6

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

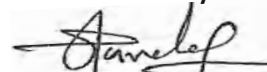
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003842F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-050</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/050	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/050	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/050
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	19/03/2024	<b>Date of Testing</b>	20/03/2024
<b>Stack Sampling Attached to</b>	<b>DAPBI Process Scrubber</b>		
<b>Air Pollution Control Device</b>	<b>Acidic Scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m <sup>2</sup>	0.0182
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m <sup>3</sup> /h	269.4

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Ammonia as NH <sub>3</sub>	mg/Nm <sup>3</sup>	22.4	<b>175</b>	IS: 11255 (Part-6)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

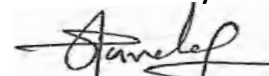
\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**



**Nikunj D. Patel**  
(Chemist)

**Authorized By:**



**Jaivik S. Tandell**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/24/03/AIL-J/S-050	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/03/050	Service Request Date	19/03/2024
Sample ID No.	URA/ID/S-24/03/050	Field Data Sheet No.:	URA/FDS/S-24/03/050
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	19/03/2024	Date of Testing	20/03/2024
Stack Sampling Attached to	<b>DAPBI Process Scrubber</b>		
Air Pollution Control Device	<b>Acidic Scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	15
2.	Stack Diameter	mm	152.4
3.	Stack Area	m <sup>2</sup>	0.0182
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	35
6.	Exit Gas Velocity	m/s	4.1
7.	Exit Gas Flow	m <sup>3</sup> /h	269.4

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

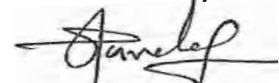
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003844F</b>			
<b>Test Report No.</b>	<b>URA/23/12/AIL-J/S-052</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/12/052	<b>Service Request Date</b>	26/03/2024
<b>Sample ID No.</b>	URA/ID/S-23/12/052	<b>Field Data Sheet No.:</b>	URA/FDS/S-23/12/052
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	26/03/2024	<b>Date of Testing</b>	27/03/2024
<b>Stack Sampling Attached to</b>	<b>Scrubber connected to Nitration Reactor</b>		
<b>Air Pollution Control Device</b>	<b>2 Stage scrubber</b>		
<b>Fuel Used</b>	--		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	29
2.	Stack Diameter	mm	76.2
3.	Stack Area	m <sup>2</sup>	0.0046
4.	Ambient Temperature	°C	35
5.	Flue Gas Temperature	°C	37

➤ **Test Parameter Results**

DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Oxide of Nitrogen	mg/Nm <sup>3</sup>	11.6	<b>25</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

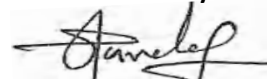
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**TEST REPORT**  
**(STACK MONITORING)**

Test Report No.	URA/23/12/AIL-J/S-052	Report Issue Date:	03/04/2024
Service Request form No.	URA/SRF/12/052	Service Request Date	26/03/2024
Sample ID No.	URA/ID/S-23/12/052	Field Data Sheet No.:	URA/FDS/S-23/12/052
Name & Add. of Customer	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
Date of Sampling	26/03/2024	Date of Testing	27/03/2024
Stack Sampling Attached to	<b>Scrubber connected to Nitration Reactor</b>		
Air Pollution Control Device	<b>2 Stage scrubber</b>		
Fuel Used	--		

➤ **Details of Instrument Used for Monitoring**

Instrument Id No.	UERL/AIR/SMK/01		
Inst. Name:	<b>Stack Monitoring Kit, VSS1</b>	Serial Number:	<b>467 DTJ 15</b>
Cali. Date:	<b>21/06/2023</b>	Next Cali. Due On:	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	29
2.	Stack Diameter	mm	76.2
3.	Stack Area	m <sup>2</sup>	0.0046
4.	Ambient Temperature	°C	35
5.	Flue Gas Temperature	°C	37

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Volatile Organic Compound	ppm	BDL	--	BY TVOC METER

**Remarks:**

**Opinion & Interpretation (if required):** BDL: Below Detection Limit

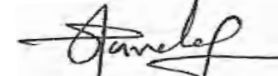
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**Annexure-19**

**Process Gas Stack Emission Monitoring Results**

Sr. No	Stack Attached to*	Parameter	Oct'23	Nov'23	Dec'23	Jan'24	Feb'24	Mar'24
1	HCl Scrubber (Storage)	HCl	3.1	4.2	2.7	3.1	3.8	3.1
2	CaCO <sub>3</sub> Reactor (CaCl <sub>2</sub> plant)	HCL	3.7	3.7	3.1	2.8	2.7	2.2
3	CaCl <sub>2</sub> Dryer vent (CaCl <sub>2</sub> plant)	PM	92.6	118	111.8	114.9	118.4	121.6
4	Reformer (Hydrogen)	CO	Plant Shut Down	28	34	21	Plant Shut Down	28
5	Chlorinator Reactor Vent	HCL	3.3	2.1	3.7	2.1	3.8	2.7
		Cl	BDL	BDL	BDL	BDL	BDL	BDL
6	CLB-HCL Scrubber (Storage)	HCL	BDL	BDL	BDL	BDL	BDL	BDL
7	CLB-Cl <sub>2</sub> Scrubber (Storage/Pipeline)	Cl <sub>2</sub>	BDL	BDL	BDL	BDL	BDL	BDL
8	CLB - PDCB Scrubber (Storage)	VOC	4.6	6.2	4.2	7.2	5.1	6.2
9	TCB Scrubber	HCL	2.2	3.1	1.7	Plant Shut Down	2.1	3.8
		Cl <sub>2</sub>	BDL	BDL	BDL		BDL	BDL
10	TCB ODCB Scrubber (Storage)	VOC	3.6	4.4	1.8	4.1	6.2	5.5
11	Group IB: Chlorination Products and its Derivatives Scrubber	HCl	Plant Shut Down	2.8	2.8	3.1	2.2	3.1
		Cl <sub>2</sub>		BDL	BDL	BDL	BDL	BDL
12	DAPBI Process (Alkali Scrubber)	HCl	2.8	3.3	1	1	3.1	2.8
		Cl <sub>2</sub>	BDL	BDL	BDL	BDL	BDL	BDL
13	DAPBI Process (Acidic Scrubber)	NH <sub>3</sub>	20.2	32.8	24.8	18.6	30.1	22.4
14	ETP Scrubber	NH <sub>3</sub>	10.4	12.1	8.6	Plant Shut Down	12.6	8.6
15	Scrubber connected to Nitration Reactors	NO <sub>x</sub>	16.2	11.6	14.2	Plant Shut Down	Plant Shut Down	11.6

\*The above mentioned data is for existing facilities only. For remaining facilities, the unit shall comply with the condition after installation and obtaining CC&A amendment.

**Annexure-20 Details of Spent Hydrochloric Acid Management:**

Sr No	Name of Hazardous Waste & Category	CCA applied Quantity (MT/Annum)	Mode of Disposal	End-Users Name	Address	MOU/ Utilization Quantity (MT/Annum)	End User CCA details	
1	<b>Hydrochloric Acid (B15 of Schedule-II)</b>	<b>196265</b>	<b>Reception, storage and consumption in inhouse CaCl<sub>2</sub> plant</b>	<b>Aarti Industries Limited (XGN ID: 35534)</b>	Internal consumption within same premises	148097	AWH-119949 Issued on 05.07.2022 Valid upto: 30.04.2029	
2				Aarti Industries Limited (Acid Division)	Plot No. 802, 803, 804/3, Phase-III, GIDC Industrial Estate, Vapi - 396195, Dist.: Valsad, Gujarat.	80000	AWH-104790 Issued on: 25.10.2019 Valid upto: 30.06.2024	
3				Generation, Collection, storage, Transportation, and selling out to authorized users who are having authorization with valid CCA and rule 9 permission to receive this waste.	Aarti Industries Limited (Alchemie Organics Division)	Plot No. 902, Phase-III, GIDC Industrial Estate, Vapi - 396195, Dist.: Valsad, Gujarat.	15000	AWH-123323 Issue on: 19.12.2022 Valid Upto 30.09.2029
4				Gautam Industrial Corporation	Plot No. 8201/2, Road No. 8, GIDC Sachin-394230, Tal. Chorasi, Dist. Surat Gujarat	1000	H-113806 Issued on 18.07.2019 Valid upto 30.06.2024	
5				Prakhar Estate	Plot No. 821, GIDC, Sachin, Surat-394230, Gujarat	2000	WH- 113809 Issued on 30.07.2021 Valid upto 03.07.2024	

6				Aarti Industries Limited (Anushakti Division)	Plot No. 1430/1, N.H. No. 8A, Bhachau-370140, Tal: Bhachau, Dist. Kutch, Gujarat	36000	AWH-106201 Issued on: 16.01.2020 Valid upto 31.12.2024
7				Shreyas Industries	Survey No. 202/4, Opp. Power Station, Golana Khambhat Road, Vill. Sokhada, Tal. Khambhat, Dist. Anand Gujarat-388620	6000	AWH-122304 Issued on 28.20.2022 Valid upto 30.06.2027
8				Shiv Chemicals	45 A, Road No. 3, Madri Industrial Area, Madri, Tehsil: Girwa, District: Udaipur, Rajasthan	12000	File No: F(Tech)/Udaipur(Girwa)/6970(1)/2022-2023/733-734 Order No : 2023-2024/Udaipur/9774
9				Modheshwari Chemtech	Plot No. 1510, GIDC, Estate, Ankleshwar, Dist.: Bharuch, Gujarat	10213	AWH-131307 Issued on 03.01.2024 Valid upto 30.11.2024
10				Gharda Chemical Limited	Plot D-1/2, B-1/7, MIDC Lote Pershuram, Taluka - Khed, Dist: Ratnagiri, Maharashtra - 415722.	18000	Format 1.0/CAC/UAN No. 0000092566/CR-2009000532 Issued on: 09.09.2022 Valid upto 31.07.2025
A	<b>Total MoU Quantity for External utilization by end-users under Rule-9 (MT/Annum)</b>					<b>180213</b>	
B	<b>Total Internal utilization for manufacturing of CaCl<sub>2</sub> (MT/Annum)</b>					<b>148097</b>	

	<b>Grand Total (A+B) in MT/Annum</b>	<b>328310</b>	
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**Details of Spent Sulphuric Acid management:**

Sr No	Name of Hazardous Waste & Category	CCA applied Quantity (MT/Annum)	Mode of Disposal	End-Users Name	Address	MOU/ Utilization Quantity (MT/Annum)	End User CCA details
1	<b>Spent Sulphuric Acid (B15 of Schedule-II)</b>	<b>56700</b>	<b>Collection, Storage, Transportation, disposal through End-User who has valid permission under Rule-9 of Hazardous and other waste (M &amp;TBM) Rules-2016 or Co-processing as per CPCB SOP released under Rule-9 or Reception, storage and utilization in the process as per CPCB SOP-53.</b>	Shree Anuve Synthetic Gypsum	Village-Balupura, Post-Rabriyawas, Balupura-30610, Tehsil: Jaitaran District: Pali, Rajasthan	56700	F(TCD)/Pali(Jaitaran)/1(1)/2022-2023/1774-1776 dated 29/08/2022 valid upto 31/07/2027
2				Shree Cement Limited (Pali)	Village Ras, Tehsil: Jaitaran, Dist. Pali, Rajasthan	56700	F(HSW)/Pali(Jaitarna)/11/(1)/2015-2016/6811-6813 dated 22/02/2022 valid upto 31/01/2027
3				Shree Cement Limited (Ajmer)	Village Andheri Deori, Tehsil: Masuda Dist. Ajmer, Rajasthan	56700	F(HSW)/Ajmer(Masuda)/2/(1)/2015-2016/7731-7733 dated 23/03/2022 valid upto 28/07/2027
4				Aarti Industries Limited (Alchemie Organics Division)	Plot No. 902, Phase-III, GIDC Estate, Vapi - 396195, Dist.: Valsad, Gujarat	20000	AHW-123323 Issued on 19.12.2022 Valid upto 30.09.2029
	<b>Grand Total in MT/Annum</b>					<b>190100</b>	





## Annexure-21

### CSR/CER Activities from Oct'23 to Mar'24

Sr No.	Plant Location	Name of Associated NGO	Nature of Work	Expended Amount (INR)	Beneficiary Students / Peoples	Impact on People's Life
1	AIL Jhagadia	Dhara Electrical Service	303 Nos Solar lights installation in Surrounding 06 Villages of Jhagadia GIDC	7377950	10000	Raising Standard of Living
2	AIL Jhagadia	My Livable Bharuch & Ankleshwar	CER Initiative by Collector Bharuch work like Swachh Bharuch, Bharuch Thaila Bank, Happy Street, Bharuch Marathon etc....	2130000	677000	Swachh Suraksha (Waste to Wealth)
3	AIL Jhagadia	R.K HIV Aids Research & Care Centres	Donation Towards Mega Health Mela @ Tribal Area	1500000	50000	Free Treatment for Malnutrition, TB & Anemia
4	AIL Jhagadia	Viraj Infotech	5 nos PC's & 5 nos UPS installation @ SP Office, Bharuch	230100	20	Development of IT Infrastructre @ SP Office, Bharuch
5	AIL Jhagadia	Kumarpal Gandhi Blood Bank	Blood Donation Camp	344383	336	Nobal Cause
6	AIL Jhagadia	Farmbridge	Farmer's Awareness & Training	2400000	500 Farmers per Month 6000 Farmers per year for a period of 3 years	1. Increase in Farmer's Income 2. Decrease in Input Cost 3. Climate Change Adoption in Agriculture 4. Soil Health Improvement
7	AIL Jhagadia	Gram Vikas Trust	Vidhya Sathi Project at 69 Govt. schools of Bharuch district Total 78 teachers & 3 project co-ordinators	3400000		To enhance doule student level in Education to Govt. Schools
<b>Total</b>				<b>17382433</b>		

## Annexure-22

### Ambient Noise Monitoring Results

Sr. No.	Location	Permissible Limit		Oct-23		Nov-23		Dec-23		Jan-23		Feb-24		Mar-24	
		Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time	Day Time	Night Time
1	Near PDA Gate	75 dB(A)	70 dB(A)	67.0	63.1	66	63.9	67.0	63.0	66.1	62.9	66.5	61.6	60.7	57.7
2	PDA Warehouse			66.1	63.3	66	63.7	66.0	62.5	66.4	62.8	65.9	63.2	70.4	68.0
3	New PDA Cooling Tower			68.7	64.5	68.4	63.8	69.5	64.5	68.6	64.4	69.0	64.4	67.6	64.3
4	Near Buss 4 Cooling Tower			69.1	67.9	69.6	67.4	70.1	67.1	69.0	67.0	70.0	67.6	67.4	64.1
5	Near 40 LacKcal/Hr TFH Area			68.9	66.7	69.1	67.1	69.0	67.5	68.5	66.4	68.9	66.8	65.8	62.3
6	Near CaCl <sub>2</sub> Reaction Area			66.5	64.2	66.4	63.4	65.9	63.6	65.8	63.5	64.2	62.6	68.2	64.8
7	Near CaCl <sub>2</sub> Granulation Plant			63.2	61.0	62.7	61.5	62.6	61.2	63.4	62.0	62.8	61.0	66.6	64.9
8	Near CaCl <sub>2</sub> material gate			62.7	60.2	62.9	59.8	62.6	60.1	62.5	59.6	62.9	59.4	73.8	69.1
9	H <sub>2</sub> G plant Main Gate			62.8	57.9	62	58	62.2	59.0	62.8	58.6	62.8	58.3	61.2	59.0
10	Near Jade Safety Office			62.3	60.5	62.2	60.5	63.0	60.1	62.3	60.8	62.9	60.3	60.1	56.7
11	Near H <sub>2</sub> G Material Gate			63.6	59.3	63.3	58.9	63.5	58.9	63.4	59.1	63.0	59.5	58.5	55.4
12	Near CLB Cooling Tower			68.4	65.4	68.6	65.8	68.4	65.8	67.7	65.1	67.9	65.0	61.0	57.5
13	Near TCAN Plant			65.6	62.2	65.2	62.1	65.4	62.4	65.5	61.9	66.0	61.7	60.8	57.8
14	Near TCAN Plant Utility Road			61.5	59.8	62.1	58.7	62.5	59.7	62.4	59.6	61.7	59.3	60.6	57.7
15	Near TCAN Plant Tank Farm			60.9	59.1	61.4	59.2	60.8	59.3	61.5	59.0	61.1	58.8	60.7	57.7



**TEST REPORT**  
**AMBIENT NOISE LEVEL MONITORING REPORT**

<b>ULR - TC77532400002758F</b>			
<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/AN-002</b>	<b>Date Of Report:</b>	<b>03/04/2024</b>
<b>Name &amp; Add. of Industries</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Sampling Method</b>	<b>IS : 9989 : 1981</b>		

➤ **Details of Instrument Used for Monitoring.**

<b>Instrument Id No.</b>	<b>Instrument Name</b>	<b>Serial Number</b>	<b>Cali. Date</b>	<b>Next Cali. Date</b>
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	02/02/2024	01/02/2025

Date and Time of Monitoring : 18 & 19/03/2024


**Result**

<b>DISCIPLINE – CHEMICAL TESTING</b>		<b>NAME OF GROUP – ATMOSPHERIC POLLUTION</b>			
<b>Sr. No.</b>	<b>Location</b>	<b>Noise Level dB(A)</b>		<b>Permissible Limit CPCB</b>	
		<b>Day Time (6:00 – 22:00)</b>	<b>Night Time (22:00 – 6:00)</b>	<b>Day Time</b>	<b>Night Time</b>
1.	Near PDA Gate	60.7	57.7	75 dB (A)	70 dB (A)
2.	Nr. PDA Cooling Tower	70.4	68.0	75 dB (A)	70 dB (A)
3.	Near 40 LackCal/Hr TFH Area	67.6	64.3	75 dB (A)	70 dB (A)
4.	Near CaCl <sub>2</sub> Granulation Plant	67.4	64.1	75 dB (A)	70 dB (A)
5.	Near CaCl <sub>2</sub> Material Gate	65.8	62.3	75 dB (A)	70 dB (A)
6.	Near CaCl <sub>2</sub> STP Plant	68.2	64.8	75 dB (A)	70 dB (A)
7.	H2G Plant Main Gate	66.6	64.9	75 dB (A)	70 dB (A)
8.	Near CLB Cooling Tower	73.8	69.1	75 dB (A)	70 dB (A)
9.	Near TCAN Plant Tank Farm	61.2	59.0	75 dB (A)	70 dB (A)
10.	Near CLB STP	60.1	56.7	75 dB (A)	70 dB (A)

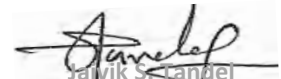
<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b>

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
Nikunj D. Patel  
(Chemist)

**Authorized By:**

  
Jaivik S. Tandel  
(Manager - Operations)



**TEST REPORT  
AMBIENT NOISE LEVEL MONITORING REPORT**

<b>ULR - TC77532400002758F</b>			
<b>Test Report No.:</b>	<b>URA/24/03/AIL-J/AN-002</b>	<b>Date Of Report:</b>	<b>03/04/2024</b>
<b>Name &amp; Add. of Industries</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Sampling Method</b>	<b>IS : 9989 : 1981</b>		

➤ **Details of Instrument Used for Monitoring.**

<b>Instrument Id No.</b>	<b>Instrument Name</b>	<b>Serial Number</b>	<b>Cali. Date</b>	<b>Next Cali. Date</b>
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	02/02/2024	01/02/2025

Date and Time of Monitoring : 18 & 19/03/2024

**Result**

<b>DISCIPLINE – CHEMICAL TESTING</b>		<b>NAME OF GROUP – ATMOSPHERIC POLLUTION</b>			
<b>Sr. No.</b>	<b>Location</b>	<b>Noise Level dB(A)</b>		<b>Permissible Limit CPCB</b>	
		<b>Day Time (6:00 – 22:00)</b>	<b>Night Time (22:00 – 6:00)</b>	<b>Day Time</b>	<b>Night Time</b>
11.	Near 2,5 DCNB-Weighbridge	58.5	55.4	<b>75 dB (A)</b>	<b>70 dB (A)</b>
12.	Near 2,5 DCNB-Material Gate 2	61.0	57.5	<b>75 dB (A)</b>	<b>70 dB (A)</b>
13.	Near Endaca Admin Building	60.8	57.8	<b>75 dB (A)</b>	<b>70 dB (A)</b>
14.	Near GOLD Gate	60.6	57.7	<b>75 dB (A)</b>	<b>70 dB (A)</b>
15.	Near GOLD Warehouse	60.7	57.7	<b>75 dB (A)</b>	<b>70 dB (A)</b>


**Note:** Ambient Air Quality Standards in respected of Noise as per CPCB.

<b>Area Code</b>	<b>Category of Area/Zone</b>	<b>Limit in dB (A) Leq</b>	
		<b>Day Time (6:00 am to 10:00 pm)</b>	<b>Night Time (10:00 pm to 6:00 am)</b>
(A)	Industrial area	75	70
(B)	Commercial area	65	55
(C)	Residential area	55	45
(D)	Silence Zone	50	40

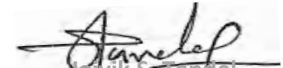
<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b>

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
Nikunj D. Patel  
(Chemist)

**Authorized By:**

  
Jai Vik S. Langhel  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003826F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-033</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/033	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/033	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/033
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 1 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	35
5.	Flue Gas Temperature	°C	120
6.	Exit Gas Velocity	m/s	11.2
7.	Exit Gas Flow	m <sup>3</sup> /h	2043.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	72.8	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.2	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	40.6	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

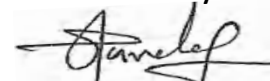
<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

\*\*\*\*\* End of Report \*\*\*\*\*

**Checked By:**

  
**Nikunj D. Patel**  
(Chemist)

**Authorized By:**

  
**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003827</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-034</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/034	<b>Service Request Date</b>	15/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/034	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/034
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	15/03/2024	<b>Date of Testing</b>	16/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 2 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	10.6
7.	Exit Gas Flow	m <sup>3</sup> /h	1934.4

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	77.9	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	7.1	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.8	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

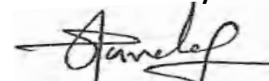
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003802F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-007</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/007	<b>Service Request Date</b>	11/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/007	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/007
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	11/03/2024	<b>Date of Testing</b>	12/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 3- 650 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m <sup>3</sup> /h	2208.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	72.8	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.8	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	41.2	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

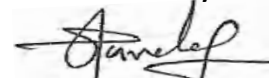
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003803F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-008</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/008	<b>Service Request Date</b>	11/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/008	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/008
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	11/03/2024	<b>Date of Testing</b>	12/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 4- 650 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	11.6
7.	Exit Gas Flow	m <sup>3</sup> /h	2116.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	71.6	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.4	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	37.6	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

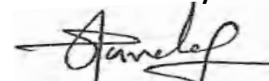
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003804F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-009</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/009	<b>Service Request Date</b>	11/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/009	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/009
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	11/03/2024	<b>Date of Testing</b>	12/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 5- 1250 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	114
6.	Exit Gas Velocity	m/s	12.2
7.	Exit Gas Flow	m <sup>3</sup> /h	2226.4

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	69.8	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	8.1	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	42.1	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

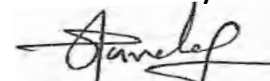
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003833F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-041</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/041	<b>Service Request Date</b>	18/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/041	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/041
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	18/03/2024	<b>Date of Testing</b>	19/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 6 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	11.3
7.	Exit Gas Flow	m <sup>3</sup> /h	2062.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	75.1	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	7.5	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	37.6	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

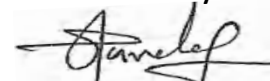
<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:

  
**Nikunj D. Patel**  
(Chemist)

Authorized By:

  
**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003834F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-042</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/042	<b>Service Request Date</b>	18/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/042	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/042
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	18/03/2024	<b>Date of Testing</b>	19/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 7 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	124
6.	Exit Gas Velocity	m/s	11.6
7.	Exit Gas Flow	m <sup>3</sup> /h	2116.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	78.4	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	8.2	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	32.9	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

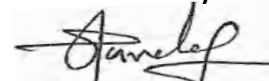
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003835F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-043</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/043	<b>Service Request Date</b>	18/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/043	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/043
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	18/03/2024	<b>Date of Testing</b>	19/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 8 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	<b>Carbon Cutter</b>		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	116
6.	Exit Gas Velocity	m/s	10.8
7.	Exit Gas Flow	m <sup>3</sup> /h	1970.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	32.7	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.1	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	39.6	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

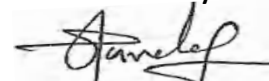
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003836F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-044</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/044	<b>Service Request Date</b>	18/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/044	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/044
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	18/03/2024	<b>Date of Testing</b>	19/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 9 - 1010 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	32
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	12.1
7.	Exit Gas Flow	m <sup>3</sup> /h	2208.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	81.8	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.6	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.5	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

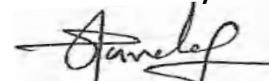
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003843F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-051</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/051	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/051	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/051
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	19/03/2024	<b>Date of Testing</b>	20/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 10 - 320 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	10
2.	Stack Diameter	mm	168
3.	Stack Area	m <sup>2</sup>	0.0222
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	121
6.	Exit Gas Velocity	m/s	9.8
7.	Exit Gas Flow	m <sup>3</sup> /h	782.4

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	84.6	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	8.2	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	37.1	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

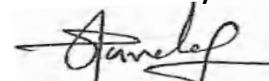
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)





**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003839F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-047</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/047	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/047	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/047
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	19/03/2024	<b>Date of Testing</b>	20/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 11 - 1500 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	125
6.	Exit Gas Velocity	m/s	10.1
7.	Exit Gas Flow	m <sup>3</sup> /h	1843.1

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	79.2	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	7.4	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	39.4	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

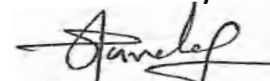
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003840F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-048</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/048	<b>Service Request Date</b>	19/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/048	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/048
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	19/03/2024	<b>Date of Testing</b>	20/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 12 - 1500 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	33
5.	Flue Gas Temperature	°C	118
6.	Exit Gas Velocity	m/s	11.4
7.	Exit Gas Flow	m <sup>3</sup> /h	2080.4

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	82.8	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	6.6	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	38.2	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

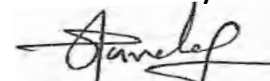
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)



**TEST REPORT  
(STACK MONITORING)**

<b>ULR - TC77532400003837F</b>			
<b>Test Report No.</b>	<b>URA/24/03/AIL-J/S-045</b>	<b>Report Issue Date:</b>	03/04/2024
<b>Service Request form No.</b>	URA/SRF/03/045	<b>Service Request Date</b>	18/03/2024
<b>Sample ID No.</b>	URA/ID/S-24/03/045	<b>Field Data Sheet No.:</b>	URA/FDS/S-24/03/045
<b>Name &amp; Add. of Customer</b>	<b>M/s. AARTI INDUSTRIES LIMITED,</b> PLOT NO. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC ESTATE, JHAGADIA, DIST-BHARUCH, GUJARAT		
<b>Date of Sampling</b>	18/03/2024	<b>Date of Testing</b>	19/03/2024
<b>Stack Sampling Attached to</b>	<b>DG Set 13 - 1500 KVA</b>		
<b>Air Pollution Control Device</b>	--		
<b>Fuel Used</b>	<b>HSD</b>		

➤ **Details of Instrument Used for Monitoring**

<b>Instrument Id No.</b>	<b>UERL/AIR/SMK/01</b>		
<b>Inst. Name:</b>	<b>Stack Monitoring Kit, VSS1</b>	<b>Serial Number:</b>	<b>467 DTJ 15</b>
<b>Cali. Date:</b>	<b>21/06/2023</b>	<b>Next Cali. Due On:</b>	<b>20/06/2024</b>

➤ **General Stack Observation**

Sr.	Description	Unit	Observation
1.	Stack Height	m	11
2.	Stack Diameter	mm	254
3.	Stack Area	m <sup>2</sup>	0.0507
4.	Ambient Temperature	°C	34
5.	Flue Gas Temperature	°C	119
6.	Exit Gas Velocity	m/s	11.6
7.	Exit Gas Flow	m <sup>3</sup> /h	2116.9

➤ **Test Parameter Results**


DISCIPLINE – CHEMICAL TESTING			NAME OF GROUP – ATMOSPHERIC POLLUTION		
Sr. No.	Test Parameter	Unit of measurement	Result	Permissible Limit	Test Method
1.	Particulate Matter	mg/Nm <sup>3</sup>	71.6	<b>150</b>	IS 11255 (Part 1)
2.	Sulphur Dioxide	ppm	5.1	<b>100</b>	IS 11255 (Part 2)
3.	Oxide of Nitrogen	ppm	30.6	<b>50</b>	IS 11255 (Part 7)

**Note:** 1) GPCB Limit Provided by Client as per Consent Order No. AWH-119949

<b>Remarks:</b>
<b>Opinion &amp; Interpretation (if required):</b> BDL: Below Detection Limit

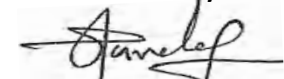
\*\*\*\*\* End of Report \*\*\*\*\*

Checked By:



**Nikunj D. Patel**  
(Chemist)

Authorized By:



**Jaivik S. Tandel**  
(Manager - Operations)

**Date: 12<sup>th</sup> April 2024**  
**AIL/JH/2024/ENV/038**

**XGN ID :35534**

To,  
The Environmental Engineer-Ankleshwar  
Gujarat Pollution Control Board,  
Paryavaran Bhavan, Sector 10A,  
Gandhinagar - 382010

**Sub.: Annual compliance report of Fly Ash as per rule 3(7) of Fly Ash Notification for the period April 23 to March 24.**

Respected Sir,

With reference to the above mentioned subject, we are submitting Annual compliance report for the period of April 23 to March 24. Compliance of the same is as follows:

1. Coal or lignite based thermal power stations shall achieve the target of fly ash utilization as per schedule given in notification i.e. 100% utilization of fly ash.  
**Compliance:** We are sending 100% of fly ash from our co-generation power plant to end users i.e the Manufacturer of Bricks. We have signed MoU with end users which is attached herewith as **Annexure-1**
2. TPP/CPP/Co-generation plant shall maintain a record of all sales and/or disposal of the fly ash.  
**Compliance:** We are maintaining the record of sales of Fly Ash. Copy of the same has been attached for your ready reference. Data of the opening stock, fly ash generation, its sales and closing stock is attached as **Annexure 2**.
3. As per rule 2(4) of Fly Ash Notification coal or lignite based TPP/CPP/Co-generation plant shall constitute a dispute settlement committee.  
**Compliance:** We have constituted a dispute settlement committee including Factory Manager & owner of the Bricks Manufacturer through Memorandum of Understanding (MoU).

We hope you will find the above in the order.  
Thanking you,  
For, Aarti Industries Limited (Unit-II), Jhagadia

  
Authorized Signatory



✓ CC: The Regional Officer, Gujarat Pollution Control Board, GIDC, Ankleshwar.

[www.aarti-industries.com](http://www.aarti-industries.com) | CIN: L24110GJ1984PLC007301

**Regd. Office :** Plot No. 801, 801/23, 11<sup>th</sup> Phase, GIDC Vapi-396195, Dist- Valsad. INDIA. T : 0260-2400366.  
**Factory :** Plot No. - 756/4-5-6-7 & 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).

Phone No. : 9537011611, 9537011711, 9537011811

**Admin. Office :** 71, Udyog Kshetra, 2<sup>nd</sup> Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.  
T : 022-67976666, F : 022-2565 3234 | E : [info@aarti-industries.com](mailto:info@aarti-industries.com)

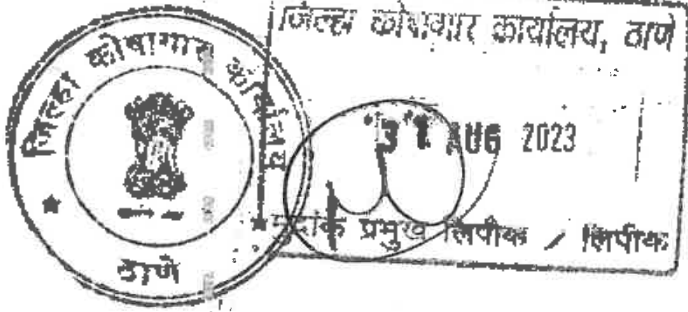




महाराष्ट्र MAHARASHTRA

2023

CB 464259



### Memorandum of Understanding

This Memorandum of Understanding (hereinafter referred to as "MoU") is made and entered into on this 27th day of December 2023 (hereinafter referred to as the "Effective Date")

BY AND BETWEEN

**AARTI INDUSTRIES LIMITED**, a company incorporated under the laws of India, having its office at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat, India and also having its corporate office at 4th Floor, Tower C, Embassy 247, LBS Road, Gandhi Nagar, Vikhroll (West), Mumbai - 400 083, Maharashtra, India (hereinafter referred to as the "Generator" (which expression shall, unless repugnant to the subject, context or meaning thereof, be deemed to mean and include its successors and assigns) of the One Part;



जोड़पत्र - २

31 AUG 2023

सूचना संख्या ३२५१२५ दिनांक

संस्था का नाम

क्या संस्था का नाम है या ? क्षेत्र/वर्ग

संस्था की पंजीकरण संख्या

सूचना विभाग के माध्यम से - AARTI INDUSTRIES LTD.

इसके पता का पता है या, 2nd FLOOR,

या नं. है - L.B.S. MARG, MULUND GOREGAON,

मुंबई - 400 080.

सूचना संख्या

सूचना संख्या

सूचना विभाग की संख्या - (संस्था का पता)

सूचना विभाग/वर्ग - संस्था का नाम

संस्था (सं.) - ५०० ६०९

संस्था का पता - ५२०९३६९

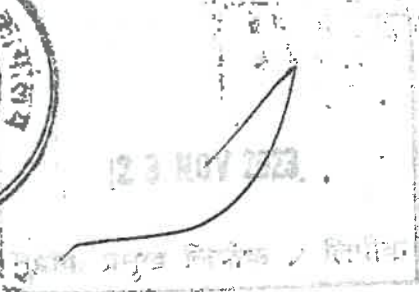
यदि संस्था का पता नहीं है तो सूचना संख्या के साथ संस्था का नाम और पता संस्था का नाम & पता संस्था का पता संस्था का पता



महाराष्ट्र MAHARASHTRA

2023

73AA 328988



AND

**RECYCLEX PRIVATE LIMITED** a company incorporated under the provisions of the laws of India and having its registered office at Survey No. 246, Sarangpur, Ankleshwar-393001, Gujarat, India hereinafter referred to as "Utilizer", (which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **Other Part**;

**Generator and Utilizer** are hereinafter individually referred to as "**Party**" and collectively as "**Parties**"

IT IS HEREBY MUTUALLY AGREED BETWEEN THE PARTIES AS UNDER

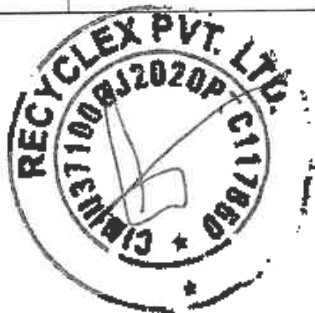




<b>RECITALS</b>	<p>A. Generator is engaged in the business <i>inter alia</i> of manufacturing, marketing, distribution and sale of specialty chemicals and related downstream products;</p> <p>B. Utilizer is engaged in the business of <i>inter alia</i> manufacturing of waste recycling and manufacturing green building products like bricks, building blocks from fly ash, and construction waste;</p> <p>C. Generator generates the Product as a waste material during their manufacturing process and has approached the Utilizer for the safe disposal of the same as per applicable rules and laws at the Utilizer's facility.</p>
<b>PROPOSED TRANSACTION</b>	The Utilizer has been evaluated and selected for receiving the Product generated from the manufacturing site of the Utilizer located at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat, India "Manufacturing Site" and will execute safe disposal of the same as per applicable rules and laws.
<b>PRODUCT</b>	"Product" shall mean Fly ash that is being transferred to the Utilizer's facility for safe disposal as per the Fly Ash Notification 1999 and its subsequent amendments thereof.
<b>QUANTITY</b>	3000 MT/Year
<b>SUPPLY PERIOD/TENURE</b>	Commencing from 28.12.2023 and valid till 30.04.2029 subject to the Term.
<b>DELIVERY TERMS</b>	<ol style="list-style-type: none"> <li>Parties agree that pickup of the Product from the Generator's facility to the Utilizer's Facility for transportation will be the responsibility of the Utilizer.</li> <li>Utilizer shall provide suitable dumpers/trucks or any other transit vehicles (Vehicles) as per the specifications, if any, prescribed by any government authority to Generator for transporting the Product to the Utilizer's unit at the cost of Generator in compliance with all applicable laws of India.</li> <li>Utilizer shall use AIS-140 compliant Global Positioning System (GPS) enabled dumpers or trucks and shall ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services. The GPS service provider must be either 'Tracknow' or 'LCS' and shall have to share the GPS User ID, Password and AIS-140 certificate with Generator for tracking purpose.</li> <li>Utilizer shall comply with Motor Vehicle Act and Rules framed thereunder for carrying hazardous chemicals/waste.</li> </ol>
<b>Generator ROLES &amp; RESPONSIBILITIES</b>	<p>Key Roles &amp; Responsibilities of Generator are:</p> <p>Generator shall keep record of inventory of Product generation, disposal &amp; stock (as applicable) and shall make inventory available for inspection as per the Fly Ash Notification 1999 and its subsequent amendments thereof.</p>



<b>Utilizer ROLES &amp; RESPONSIBILITIES</b>	<p>Key Roles &amp; Responsibilities Utilizer of are:</p> <ol style="list-style-type: none"> <li>1. The Utilizer shall ensure that the vehicle shall be dedicated for transportation of Product and shall not be used for any other purposes.</li> <li>2. The Utilizer shall ensure to cover the vehicle adequately with tarpaulin.</li> <li>3. Utilizer should maintain necessary labels/markings of vehicle carrying the Product at all times as required by Motor Vehicle Act, 1988 and Motor Vehicle Rules, 1989 framed thereunder for carrying such waste.</li> <li>4. The Utilizer shall ensure the cleaning of vehicles carrying Product shall be carried out at a designated place in Utilizer's facility.</li> <li>5. The Utilizer shall keep record of inventory of Product receipt, disposal &amp; stock (as applicable) and shall make inventory available for inspection as per the Fly Ash Notification 1999 and its subsequent amendments thereof.</li> <li>6. The Utilizer shall be responsible in case of any illegal disposal of Product during the transportation and shall safely transport the Product from the premises of the Generator till the premises of the Utilizer.</li> <li>7. The Utilizer shall follow and comply with requirements of guidelines/checklists formulated by the Generator.</li> <li>8. The Utilizer shall ensure written communication to Generator through mail for acceptance of Product within one (1) day of receiving it at their premise.</li> </ol>
<b>UTILIZER REPRESENTATION</b>	<p>Utilizer has represented and assured Generator that it has all the statutory approvals and permits for operating such a Product processing unit in an environmentally compliant manner and possess the necessary skills, manpower, knowledge and ability to do so.</p>
<b>FORCE MAJEURE</b>	<ol style="list-style-type: none"> <li>i. This MoU and its performance shall be subject to Force Majeure. For the purpose of this clause <b>Force Majeure</b> shall mean and include any act of God, flood, explosion, earthquake, cyclone, storm, tidal wave, drought, landslide or similar disturbance, sabotage, fire, accident, insurrection, terrorist attack, fire, explosion, hurricane, tempest, embargo, landslide, perils at the sea, transporters strike, riot, plant breakdown, blockage, machinery breakdown confiscation, embargo, pandemic, epidemic, a law in change in law or order of any judicial/statutory/administrative/local authority or body, change in any act, order, proclamation, decree, war, strike, lock-out including at plant or mines, quarantine, in or other acts of God or any other event beyond the reasonable control, civil commotion regulation, ordinance, instruction, directives of government, and any other events beyond reasonable control of the Parties. ("Force Majeure").</li> <li>ii. Either Party affected by Force Majeure shall be temporarily relieved from their obligations during the period of time such Force Majeure events continue and to the extent their liabilities are affected shall stand suspended and shall notify other Party of the same. Parties agree that Force Majeure shall not in any manner absolve each of them from their subsisting and continuing obligations under the MoU which are not affected by Force Majeure.</li> <li>iii. If an event of Force Majeure continues for more than 30 (thirty) calendar days, then Parties shall amicably discuss a way forward, including extending the Term.</li> </ol>



<b>TERM</b>	This MoU shall come into effect on the Effective Date and shall, unless mutually extended in writing by the Parties, stand terminated on or before the completion of five (5) years from the Effective Date. ("Term").
<b>INDEMNITY BY UTILIZER</b>	The Utilizer shall defend, indemnify and save harmless directors, employees and agents of Generator against any and all direct claims, demands, fines, loses, damages, costs, penalties, expenses, actions, suits or proceedings, injuries, monetary liability on account of any act or omission, breach or nonconformance by the Utilizer with respect to the provisions contained in this MOU or any statutory non-compliance.
<b>GOVERNING LAW AND JURISDICTION</b>	This MoU shall be governed by, and construed in accordance with the laws, rules and regulations of India as amended or modified from time to time. (Applicable Laws).The High Court at Ahmedabad, India shall have sole and exclusive jurisdiction to try and entertain any disputes which may arise between the Parties.
<b>DISPUTE RESOLUTION</b>	Any dispute or differences under or in relation to this MoU or its interpretation thereof shall be amicably resolved by the Parties within a period of 30 days from the date of reference of the dispute by one Party to another. In the event the Parties fail to amicably resolve the dispute within the aforesaid period, such dispute/difference shall be referred to and resolved by binding arbitration of a sole arbitrator appointed in accordance with the Rules of the Mumbai Centre of International Arbitration ("MCIA Rules"), which MCIA Rules are deemed to be incorporated by reference into this Clause. The seat or legal place /venue of arbitration shall be at Ahmedabad. The language to be used in the arbitral proceedings shall be English.



IN WITNESS WHEREOF, the Parties have executed this MoU through their authorized representatives on the date and year first hereinabove mentioned.

**SIGNED AND DELIVERED** by the within named **AARTI INDUSTRIES LIMITED** through its Authorized Signatory

Ms. Sandhya Tolat in the presence of:

1. *Shradha* (Shradha Sharma)
2. *Agarwal* (Agarwal)


  
Ms. Sandhya Tolat

  
For AARTI INDUSTRIES LIMITED  
(General Counsel & Authorized Signatory)

**SIGNED AND DELIVERED** by the within named Recyclex Private Limited through its Authorized Signatory

Mr. Vedant Vijaybhai Gandhi in the presence of:

1. *Abhishek Chavhan - Abhishek Chavhan*
2. *Deepak Marhi*

  
Mr. Vedant Vijaybhai Gandhi

  
For Recyclex Private Limited  
(Authorized Signatory)



IN-GJ36939100265132V



सत्यमेव जयते

# INDIA NON JUDICIAL Government of Gujarat

**NOTARY**

## Certificate of Stamp Duty

Certificate No.

IN-GJ36939100265132V

Regd. No. 1166/23

Date: 1 APR 2023

Certificate Issued Date

01-Apr-2023 09:46 AM

Account Reference

IMPACC (AC)/ gj13146611/ BHARUCH/ GJ-BH

Unique Doc. Reference

SUBIN-GJGJ1314661100712630065449V

Purchased by

MAYANK T PARMAR

Description of Document

Article 5(h) Agreement (not otherwise provided for)

Description

M O U

Consideration Price (Rs.)

0  
(Zero)

First Party

MS AARTI INDUSTRIES LIMITED

Second Party

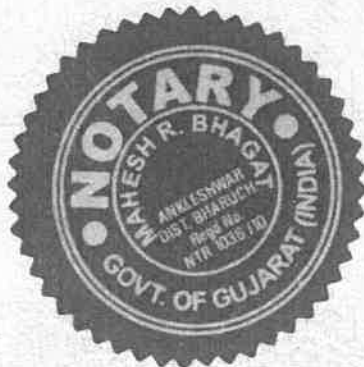
MS SHREENATHJI BIRCKS

Stamp Duty Paid By

MS AARTI INDUSTRIES LIMITED

Stamp Duty Amount(Rs.)

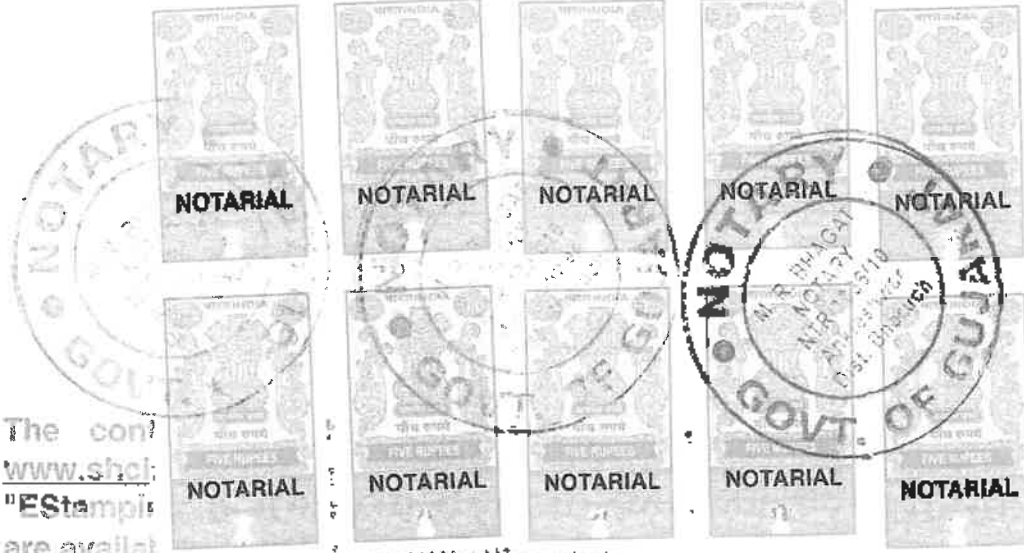
300  
(Three Hundred only)



JD 0038244180

### Statutory Alert:

- The authenticity of this Stamp Certificate should be verified at [www.stampstamp.com](http://www.stampstamp.com) or using e-Stamp Mobile App of Stock Holding Corporation of India.
- Any discrepancy in the details on this Certificate will be available on the website / Mobile App rendered by e-Stamp.
- In case of any discrepancy, please inform the Concerned Authority.



- The con? [www.shcil](http://www.shcil) "EStamps" are availat
- Any alteration to this certificate renders it invalid and would constitute a criminal offence.
- Kindly contact Stock Holding Branch / Centre in case of discrepancy.
- For information related to e-Stamping you may write to us on our email id [estamp.ahmedabad@stockholding.com](mailto:estamp.ahmedabad@stockholding.com) or visit our Branch / Centre.

#### સૂચના

- આ ઈ-સ્ટેમ્પ પ્રમાણપત્રની વિગતો [www.shcilestamp.com](http://www.shcilestamp.com) દ્વારા અથવા સ્ટોક હોલ્ડિંગની "ઈ-સ્ટેમ્પિંગ" મોબાઈલ એપ્લિકેશન અથવા સ્ટોક હોલ્ડિંગની શાખા / કેન્દ્ર (જેની વિગતો [www.stockholding.com](http://www.stockholding.com) પર ઉપલબ્ધ છે) પર જઈને ચકાસી શકાય છે.
- આ પ્રમાણપત્રમાં કરેલ કોઈપણ ફેરફાર અમાન્ય છે અને તે કોજદારી ગુનો બને છે.
- આ ઈ-સ્ટેમ્પ પ્રમાણપત્રમાં કોઈપણ વિસંગતતા જણાય તો સ્ટોક હોલ્ડિંગની શાખા / કેન્દ્ર પર સંપર્ક કરવો.
- ઈ-સ્ટેમ્પિંગ સંબંધિત કોઈપણ માટે અમને [estamp.ahmedabad@stockholding.com](mailto:estamp.ahmedabad@stockholding.com) પર ઈ-મેઈલ કરવો અથવા અમારી શાખા / કેન્દ્ર ની મુલાકાત લેવી.

**NOTARY**

**MEMORANDUM OF UNDERSTANDING  
BETWEEN**

Particulars	Generator	Utilizer
Name	M/s. Aarti Industries Limited, (Unit -II, Jhagadia)	M/s. Shreenathji Bricks
Address	Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat	Block No. 438, Vasravi, Tadkeshwar Mosali Road, Opp. Gujarat Agro, Mangrol, Vasravi, Surat, Gujarat-394421
CCA No.	AWH-119949 Issued on 05.07.2022 & Valid upto 30.04.2029	--
Issued by	Gujarat Pollution Control Board, Gujarat	--
Name of Material/Waste	Fly Ash	
MOU Quantity	3000 MT/Year	
Valid upto	30.04.2029	

The particulars of this MOU including terms and conditions between the Generator & the Utilizer are mentioned herewith:

That

1. Fly Ash Utilizer shall execute MOU with Fly Ash generator with below terms & conditions.
2. As a part of this MOU, the Fly Ash Utilizer has agreed to accept the Fly Ash generated from the manufacturing activities of the Generator.
3. Fly Ash shall be transported through AIS-140 compliant Global Positioning System (GPS) enabled dedicated dumpers/trucks only.
4. The Utilizer shall be responsible for transportation and ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services.
5. Both the parties, the Generator and the Utilizer, shall keep record of inventory of Fly ash generation, disposal & stock (as applicable) and shall make inventory available for inspection.
6. The Transporter shall be responsible in case of any illegal disposal of fly ash during the transportation and shall safely transport the fly ash from the premises of the Generator till the premises of the Utilizer.
7. The Transporter shall ensure to cover the vehicle adequately with tarpaulin.
8. The Transporter shall follow and comply with requirements of guidelines/checklists formulated by the Generator.
9. The Transporter shall comply with Motor Vehicle Act and Rules framed thereunder for carrying Hazardous Chemicals/waste.
10. The Transporter shall ensure that the trucks shall be dedicated for transportation of Fly ash and shall not be used for any other purposes.



*A. Vajpey*  
**Shreenathji bricks**



**NOTARY**

- 11. The Transporter shall ensure the cleaning of vehicles carrying Fly ash shall be carried out at designated Utilizer's facility.
- 12. The Utilizer shall ensure written communication to Generator through mail for acceptance of consignment.

**M/s. Aard Industries Limited  
(Unit-I, Jhagadia)**



Authorized Signatory

**M/s. Shreenathji Bricks**

Authorized Signatory

Mo. 98245 47610  
**MAHESH R. BHAGAT**  
 Docu Reg. No. 1166/23  
 NOTARY  
 Date 2/4/23  
 Reg. No. NTR/ANK/1038/10  
 Ankleshwar-01, Dist. Bharuch

BEFORE ME  
 EXECUTED ACCEPTED  
 & SIGNED BEFORE ME  
  
**MAHESH R. BHAGAT**  
 NOTARY  
 NTR / 1038 / 10  
 ANKLESHWAR. DIST BHARUCH

- 1 APR 2023



सत्यमेव जयते

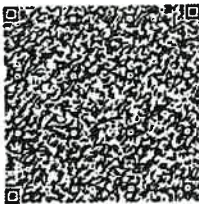
# INDIA NON JUDICIAL Government of Gujarat

## Certificate of Stamp Duty

### NOTARY

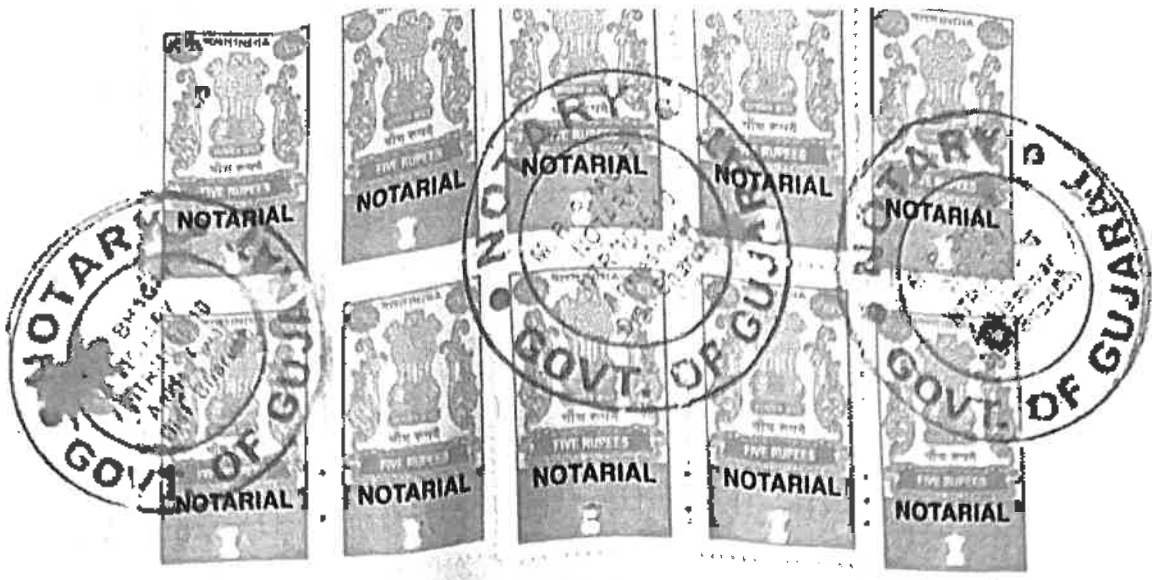
Regd. No. 1554/2  
Date

Certificate No.	IN-GJ1978004807353V
Certificate Issued Date	29-May-2023 09:37 AM
Account Reference	IMPACC (AC)/ g13146611/ BHARUCH/ GJ-BH
Unique Doc. Reference	SUBIN-GJGJ1314661170035007987447V
Purchased by	MAYANK T PARMAR
Description of Document	Article 5(h) Agreement (not otherwise provided for)
Description	MOU
Consideration Price (Rs.)	0 (Zero)
First Party	MS AARTI INDUSTRIES LIMITED
Second Party	MS MANTRA BRICKS AND CEMENT ARTICLES
Stamp Duty Paid By	MS AARTI INDUSTRIES LIMITED
Stamp Duty Amount(Rs.)	300 (Three Hundred only)



HE 0003011568

**Statutory Alert:**  
 1. The authenticity of this Stamp certificate should be verified at [www.siristamp.com](http://www.siristamp.com) or using e-Stamp Mobile App of Stock Holding.  
 Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.  
 2. The onus of checking the legitimacy is on the users of the certificate.  
 3. In case of any discrepancy please inform the Competent Authority.



29 MAY 2022 • The contents of this e-stamp certificate can be verified at [www.shcilestamp.com](http://www.shcilestamp.com), Stock Holding mobile application "EStamping" or at Stock Holding Branch/ Centre (the details of which are available at [www.stockholding.com](http://www.stockholding.com)).

**TARY**

- Any alteration to this certificate renders it invalid and would constitute a criminal offence.
- Kindly contact Stock Holding Branch / Centre in case of discrepancy.
- For information related to e-Stamping you may write to us on our email id [estamp.ahmedabad@stockholding.com](mailto:estamp.ahmedabad@stockholding.com) or visit our Branch/Centre.

#### સૂચના

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- આ ઈ-સ્ટેમ્પ પ્રમાણપત્રમાં કોઈપણ વિસંગતતા જણાય તો સ્ટોક હોલ્ડિંગની શાખા / કેન્દ્ર પર સંપર્ક કરવો.
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**NOTARY**

**NOTARY**

29 MAY 2023

**MEMORANDUM OF UNDERSTANDING  
BETWEEN**

Particulars	Generator	Utilizer
Name	M/s. Aarti Industries Limited, (Unit -II, Jhagadia)	M/s. Mantra Bricks & Cement Articles
Address	Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778, 779, GIDC Estate, Jhagadia, Dist-Bharuch, Gujarat	Post Mandva, Taluka Ankleshwar, Dist. Bharuch, Gujarat.
CCA No.	AWH-119949 Issued on 05.07.2022 & Valid upto 30.04.2029	--
Issued by	Gujarat Pollution Control Board, Gujarat	--
Name of material/waste	Fly Ash	
MOU Quantity	2000 MT/Year	
Valid upto	30.04.2029	

The particulars of this MOU including terms and conditions between the Generator & the Utilizer are mentioned herewith:

- That
1. Fly Ash Utilizer shall execute MOU with Fly Ash generator with below terms & conditions.
  2. As a part of this MOU, the Fly Ash Utilizer has agreed to accept the Fly Ash generated from the manufacturing activities of the Generator.
  3. Fly Ash shall be transported through AIS-140 compliant Global Positioning System (GPS) enabled dedicated dumpers/trucks only.
  4. The Utilizer shall be responsible for transportation and ensure API development of GPS of all the vehicles with Aarti Logistics Control Room (ALCR) before engaging in the services.
  5. Both the parties, the Generator and the Utilizer, shall keep record of inventory of Fly ash generation, disposal & stock (as applicable) and shall make inventory available for inspection.
  6. The Transporter shall be responsible in case of any illegal disposal of fly ash during the transportation and shall safely transport the fly ash from the premises of the Generator till the premises of the Utilizer.
  7. The Transporter shall ensure to cover the vehicle adequately with tarpaulin.
  8. The Transporter shall follow and comply with requirements of guidelines/checklists formulated by the Generator.
  9. The Transporter shall comply with Motor Vehicle Act and Rules framed thereunder for carrying Hazardous Chemicals/waste.
  10. The Transporter shall ensure that the trucks shall be dedicated for transportation of Fly ash and shall not be used for any other purposes.

29 MAY 2023

**NOTARY**



- The Transporter shall ensure the cleaning of vehicles carrying Fly ash shall be carried out at designated Utilizer's facility.
- 12. The Utilizer shall ensure written communication to Generator through mail for acceptance of consignment.
- 13. The undersigned authorized signatory shall constitute as dispute settlement committee as per Rule 2(4) of Fly Ash notification 1999 and its amendments thereof and same shall be responsible to resolve any dispute arising out of business activities.

M/s. Aarti Industries Limited  
(Unit-II, Bhagadia)



M/s. Mantra Bricks & Cement  
Articles

Mantra Brick And Cement Articles  
*Mantra Bricks & Cement*

Authorized Signatory/Partner

29 MAY 2023

BEFORE ME  
EXECUTED ACCEPTED  
& SIGNED BEFORE ME

*Mahesh R. Bhagat*  
**MAHESH R. BHAGAT**  
NOTARY  
NTR / 1036 / 10  
ANKLESHWAR, DIST. BHARUCH

No. 98245 47610  
**MAHESH R. BHAGAT**  
NOTARY Docu Reg. No. *125*  
Date *29/05/23*  
Reg. No. NTR/ANK/1036/10  
Ankleshwar-01, Dist. Bharuch.

**ANNEXURE - 2**

<b>Month</b>	<b>Fly Ash Opening Balance (MT)</b>	<b>Fly Ash Generation (MT)</b>	<b>Sold (MT)</b>	<b>Closing Balance (MT)</b>
<b>April-2023</b>	14.433	132.595	127.660	19.368
<b>May-2023</b>	19.368	108.780	116.520	11.628
<b>June-2023</b>	11.628	123.938	125.800	9.766
<b>July-2023</b>	9.766	148.390	142.380	15.776
<b>August-2023</b>	15.776	110.209	109.320	16.665
<b>September-2023</b>	16.665	84.734	71.010	30.389
<b>October-2023</b>	30.389	113.290	129.480	14.199
<b>November-2023</b>	14.199	90.042	95.360	8.881
<b>December-2023</b>	8.881	87.336	70.710	25.507
<b>January-2024</b>	25.507	86.897	86.610	25.794
<b>February-2024</b>	25.794	94.142	107.980	11.956
<b>March-2024</b>	11.956	138.382	136.740	13.598
<b>Year's Cumulative (1st April' 23 to 31st March' 24)</b>				
<b>2023-2024</b>	<b>Opening stock as on 01.04.23 14.433</b>	<b>1318.735</b>	<b>1319.570</b>	<b>Closing stock as on 31.03.24 13.598</b>





**BEIL INFRASTRUCTURE LIMITED**  
(Formerly Known As Bharuch Enviro Infrastructure Limited)

Ref. BEIL/ANK/2022

05 November, 2022

To,

**Aarti Industries Limited**

Plot No.756/2 A & B, 756/3 A & B, 756/4 A & B, 756/5 A & B, 756/6,  
756/7, 756/8, 756/9, 779,  
GIDC Estate,  
Jhagadia.

**Sub: NOC for receiving Landfill waste**

Dear Sir,

We are in receipt of your letter dt.04-11-2022. We would like to inform you that we have no objection in granting you our membership. **We shall be accepting your hazardous Landfill waste Qty. 40000 MT/Year at BEIL Infrastructure Ltd, Ankleshwar site Plot No. 9701-16, GIDC Estate, Ankleshwar.**

Hazardous waste acceptance is subject to verification of quality & should be as per GPCB authorization.

- 1) **Total TSDF Capacity of BEIL Ankleshwar: 5098000 MT**
- 2) **Total Consented Capacity: 5098000 MT**
- 3) **Total Occupied Capacity: 3842911.851 MT**
- 4) **Spare Capacity: 1255088.149 MT**

Validity of this letter is for **Six** months from the date of issuance.

Thanking you,

Yours faithfully,

**For, BEIL INFRASTRUCTURE LTD.**

  
**AUTHORISED SIGNATORY**





BHARUCH ENVIRO INFRASTRUCTURE LIMITED

REF: BEIL/ANK/2016

12<sup>st</sup> July, 2016

To,  
**Aarti Industries Ltd. (Unit- II)**  
Plot No.756-4/5/6/7 & 779,  
GIDC, Jhagadia.

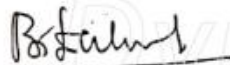
**Sub : Membership Certificate for Common Solid Waste Disposal Facility.**

Dear Sir,

We hereby certify that you have become member of the common Solid/Hazardous Waste Disposal Facility developed by Bharuch Enviro Infrastructure Ltd., at GIDC, Ankleshwar and Dahej. You have booked solid waste quantity **1500 MT/ Year** (Original Booked Quantity **100 MT** + Increased Quantity **1400 MT**). Your Membership No. is **Jhg/032**.

Thanking you,

Yours faithfully,  
For, **BHARUCH ENVIRO INFRASTRUCTURE LTD.**

  
**AUTHORISED SIGNATORY**



06<sup>TH</sup> OCTOBER, 2022

To,  
**AARTI INDUSTRIES LTD. UNIT-2 (756)**  
PLOT NO:756/2 A & B, 756/3 A & B, 756/4 A & B,  
756/5 A & B, 756/6 & 779,  
GIDC ESTATE JHAGADIA,  
DIST-BHARUCH.

**Sub: Membership Certificate for Incinerable Waste Facility.**

Dear Sir,

We hereby certify that you have become member for the common incineration facility of **BEIL INFRASTRUCTURE LIMITED** (FORMERLY KNOWN AS BHARUCH ENVIRO INFRASTRUCTURE LTD), at GIDC, Ankleshwar & Dahej. You have booked quantity of **900 MT/Year**. You have paid Registration fees for common incinerator membership. Your Membership No. is **CI/JHG/035**.

Waste will be accepted after submitting valid authorization of GPCB.

Thanking you,

Yours faithfully,  
**For, BEIL INFRASTRUCTURE LIMITED**

  
AUTHORISED SIGNATORY

# Certificate

Certificate No: CPAW1A0044

*To Whomsoever it may concern*  
*This is to certify that*  
**AARTI INDUSTRIES LIMITED.**

756-4A/B, 5A/B, 6,7&779,  
G.I.D.C., JHAGADIA,  
DIST.BHARUCH,  
JHAGADIA

*is a valid member of*

**Recycling Solutions Private Limited**

*for Alternate Fuel Resource Facility.*

*This membership is valid for a period of*

**10 Years**

*Date of issue* 07/09/2015

*Date of expiration* 06/09/2025

*Place of issue* : Panoli

*For, Recycling Solutions Private Limited*

*Director/Authorised signatory*

Waste Information :					
SrNo	Type Of Waste	Sign Qty (TPA)	SrNo	Type Of Waste	Sign Qty (TPA)
1	DISTILLATION RESIDUE	1,400.000			
Total Sign Qty (TPA) :					1,400.000

SUBJECT TO BHARUCH JURISDICTION

# Certificate



To whomsoever it may concern  
This is to certify that

Certificate No : 4100002389

## AARTI INDUSTRIES LTD

756-4A/B, 5A/B, 6,7&779,  
G.I.D.C., JHAGADIA, DIST.BHARUCH,  
JHAGADIA  
Gujarat

is a valid member of

## Recycling Solutions Private Limited Unit-II

for Alternate Fuel Resource Facility.

This membership is valid for a period of  
**10 Years**

For, Recycling Solutions Private Limited Unit-II

Date of issue : 20.11.2019  
Date of expiration : 19.11.2029  
Place of issue : SURAT

Director/Authorised signatory

### Waste Information

SrNo	Type Of Waste	Sign Qty(TPA)	SrNo	Type Of Waste	Sign Qty(TPA)
1	DISTILLATION RESIDUE. - 28.1	600.000		-	0.000
				<b>Total Sign Qty (TPA)</b>	<b>600.000</b>

Rodrigue  
s Kevin

Digitally signed by Rodrigues  
Kevin  
DN: cn=Rodrigues Kevin, o=IN  
o=Personal  
Reason: I am the author of this  
document  
Location:  
Date: 2022-04-01 11:28+05:30

**SUBJECT TO JURISDICTION**

Page No : 1



# Ambuja Cement

To,  
Arati Industries Ltd  
Plot No. 756/2 A&B, 756/3 A&B, 756/4  
A&B, 756/5 A&B, 756/6, 779,  
GIDC Estate, Jhagadia, Dist. Bharuch

04th, October, 2021

Sub.: Co-processing of your waste stream at M/s Ambuja Cements Ltd., P.O. Ambujanagar, Tal. : Kodinar, Dist-GirSomnath

Dear Sir,

This has reference to your request for issuance of supporting letter for amendment of your CCA for following waste stream Co-processing in kilns of M/s Ambuja Cements Ltd., Ambujanagar, Tal-Kodinar, Dist-GirSomnath. We have got facilities for pre-processing and co-processing of below mentioned waste at our Ambujanagar plant.

Sr. No.	Name of the Company	Name of Waste	Volume MTPA
1.	Arati Industries Ltd	Distillation Residue (28.1)	1404
2	Arati Industries Ltd	Process residue (26.1)	363

We request you to amend your CCA Waste Quantity or volume with addition of above waste as waste stream being generated & Co-processing as a mode of disposal option.

We can accept your waste for co-processing only if it is as per our acceptance criteria and completions of all necessary formalities in this regards.

Thanking you,

For Ambuja Cements Ltd  
Unit Ambuja Cement

Authorized Signatory.

Mr. Satendra Singh  
CPH.

**Ambuja Cements Limited**

(Unit : Ambujanagar)

Regd. Office : P.O Ambujanagra- 362715, Tal : Kodinar, Dist : Gir-Somnath, Gujarat.  
Phone : (02795) 221137 , 232009, fax (02795) 220328 , 232032

Ref No: DCBL/WM/002/21-22

Date: 06/08/2021

To,

Aarti Industries limited (U-II)  
Plot No. 756/2 A&B, 756/3 A&B, 756/4A&B, 756/5 &B 756/6 & 779,  
GIDC Estate, Jhagadia, Dist. Bharuch

Subject: Waste acceptance letter for various Hazardous Waste

As per the sample analysis of waste, it is suitable for Co-processing in cement Kilns and can be used as alternative fuel/raw material at Dalmia Cement (Bharat) Ltd, Rajgangpur.

Waste Name	Category No.	Qty (Mt/Year)
Distillation residues	28.1	1404
Process Residues	26.1	363.73

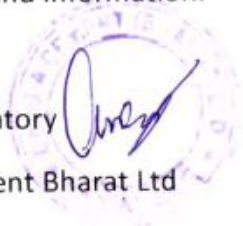
Dalmia Cement Bharat Ltd "DCBL" have the valid authorisation to Co-process the waste in Kilns.

DCBL can accept the waste as per authorisation and suitable characteristics of waste.

This is for your kind information.

Authorized Signatory

For Dalmia Cement Bharat Ltd



**Dalmia Cement (Bharat) Limited**

Rajgangpur, Sundargarh - 770 017, Odisha, India

T +91 6624 220 121 Toll Free 1800 2020 W www.dalmiacement.com CIN: U65191TN1996PLC035963

Registered Office: Dalmiapuram, District Tiruchirappalli - 621 651, Tamil Nadu, India

**A. Member of CETP / TSDF ? Certificate (MEM) Uploaded in XGN on 25/08/2022 16:09:29 from IP No: 14.99.145.14.**

**B. 35534-Aarti Industries Limited accepts the LEGAL responsibility and undertakes that the furnished information is CORRECT & ACCURATE.**

# Ambuja Cement

To,

25th Nov, 2021

Arati Industries Ltd

Plot No. 756/2 A&B, 756/3 A&B, 756/4

A&B, 756/5 A&B, 756/6, 779,

GIDC Estate, Jhagadia, Dist. Bharuch

Sub.: Co-processing of your waste stream at M/s Ambuja Cements Ltd., P.O. Ambujanagar, Tal. : Kodinar, Dist-GirSomnath

Dear Sir,

This has reference to your request for issuance of supporting letter for amendment of your CCA for following waste stream Co-processing in kilns of M/s Ambuja Cements Ltd., Ambujanagar, Tal-Kodinar, Dist-Gir Somnath. We have got facilities for pre-processing and co-processing of below mentioned waste at our Ambujanagar plant.


Sr. No.	Name of the Company	Name of Waste	Volume MTPA
1	Arati Industries Ltd	Silica Sludge from calcium chloride (35.3)	8640

We request you to amend your CCA Waste Quantity or volume with addition of above waste as waste stream being generated & Co-processing as a mode of disposal option.

We can accept your waste for co-processing only if it is as per our acceptance criteria and completions of all necessary formalities in this regards.

Thanking you,

**For Ambuja Cements Ltd.  
Unit Ambuja Cement.**

  
Authorised Signatory.

Mr. Satendra Singh  
CPH.

**Ambuja Cements Limited**

(Unit : Ambujanagar)

Regd. Office : P.O Ambujanagra- 362715, Tal : Kodinar, Dist : Gir-Somnath, Gujarat.

Phone : (02795) 221137 , 232009, fax (02795) 220328 , 232032





Date:15.07.2020

**TO WHOMSOEVER CONCERNED**

**CERTIFICATE**

We acknowledge the receipt of your letter dated 15<sup>th</sup> July 2020 requesting to grant a of membership for **M/s. Aarti Industries Ltd.** situated at **Plot No.756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6 & 779, GIDC Estate Jhagadia, Dist:Bharuch** for disposal of Distillation Residue, Process Residue, Spent Carbon, Off Specific Product, Contaminated Cotton/Wooden Waste,Spent Catalyst waste generated from their unit as details mentioned below:

<u>Sr. No.</u>	<u>Type of Waste</u>	<u>Quantity (MT/Annum)</u>
1	Distillation Residue	1,404
2	Process Residue	12,480
3	Spent Carbon	1,020
4	Off Specification Product	25
5	Contaminated Cotton Waste	150
6	Spent Catalyst	444

M/s. Saurashtra Enviro Projects Pvt. Ltd. shows its readiness to accept the above waste proposed by **M/s. Aarti Industries Ltd.** after they complete the necessary membership formalities and conducting Comprehensive analysis of their waste to confirm disposal pathway for its safe disposal at our site.

**For,Saurashtra Enviro Projects Pvt. Ltd.**

**(Authorized Signatory)**



# "Certificate"

**DETOX INDIA**  
operated by  **VEOLIA**

**Certificate No.:101402**

***To Whomsoever it may concern***

***This is to certify that***  
**AARTI INDUSTRIES LTD.**

PLOT NO. 756/2 A&B, 756/3 A&B,  
756/4 A&B, 756/5 A&B, 756/6 & 779,  
GIDC ESTATE JHAGADIA,  
BHARUCH

***is a valid member of***

**SAFE ENVIRO PRIVATE LIMITED**

**SEPL - Magnad**

***for***

***Integrated Common Hazardous Waste Management Facility***

***This membership is valid for a period of***

***05 Years***

***Date of Issue :27-10-2021***

***Date of Expiration : 27-10-2026***

***Place of Issue : Surat***

***For, Safe Enviro Private Limited***

***Director***

SUBJECT TO SURAT JURISDICTION

**Safe Enviro Private Limited**

Survey No. 868, Village - Magnad, Tal. - Jambusar, Dist. - Bharuch - 392150 (Guj.) INDIA

Corporate Office : Detox House, Opp. Gujarat Samachar Press, Udhna Darwaja, Ring Road, Surat-395 002 (Guj.) INDIA

Ph. : +91 261 2351248, 2346181 | E-mail : info.safeenviro@veolia.com | CIN : U51101GJ2015PTC083237



# On-Site Emergency Plan

[Prepared as required by Schedule 8-A, Rule 68 – J (12) (1) of The GFR 1963]  
&

[The rule 13(1) of MSIHC Rules 1989 (Manufacture, Storage and Import of Hazardous chemicals Rule -1989)]

OF

M/s. Aarti Industries Ltd.(Unit - 2)

Jhagadia

August 2023

## Address:

Plot No: Plot No. 756/2/A/B,  
756/3/A/B, 756/4/A/B,  
756/5/A/B, 756/6, 756/7, 756/8  
756/9 778, 779,  
GIDC, PB No.23,  
Jhagadia,  
Dist-Bharuch,  
Gujarat - 393110

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**Preface**

Our First Emergency Plan was prepared many years ago and then it has been updated as & when required; based on learning from various Mock drills and on account of expansion in the facility. Mock drills will be conducted to test the plan and to improve our emergency preparedness. The results of these mock drills, identification and assessment of all maximum credible scenarios, study of various Rules, Regulations and standards will be taken as basis for modifying the ON-SITE Emergency Plan along with classification of Emergencies & requirements of implementation of ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018. The goals and objectives of all these efforts are to improve quality of work and working life through dedicated concentrated efforts consistent with the requirement of safety, health and environment at workplace.

As emergencies arise suddenly; the necessity to remain always alert & ready with supporting facilities to face them effectively; is of paramount importance. This document cannot be said to be the complete as its only sets broad guidelines for emergency preparedness. Well planned and well rehearsed Emergency Plan will help organizations to mitigate / control emergency situation in minimum time and also to restart operation with minimum losses.

All the key personnel are requested to study the document and become familiar with the contents and disseminate information to those working with them.

**Mr. Ajaykumar Gupta**  
**Occupier**



AGREEMENT FOR MUTUAL AID

This agreement is made at Jhagadia industrial estate, Jhagadia, Dist.: Bharuch on 1<sup>st</sup> September 2018 between the following companies.

Sr No	Name of the company	Address for communication
1	UPL Ltd.(Unit 5)	UPL Ltd Plot no 746 / 750 ,GIDC , Jhagadia Dist. :Bharuch ,State: Gujarat
2	DCM SHRIRAM Ltd. (Unit: Shriram Alkali & Chemicals)	DCM SHRIRAM LTD. (unit: Shriram Alkali & Chemicals) Plot no: 749, GIDC Industrial Estate, Jhagadia, Dist Bharuch State: Gujarat
3	LAKSHESS INDIA PVT. LTD.	PLOT NO. 748/2A, 3, 4A, 4B GIDC MEGA ESTATE JHAGADIA-393110 DIST BHARUCH
4	Vandhawan Azrylics Ltd.,	755, GIDC, Jhagadia Bharuch - 393110 asunbhadadi@vandhawan.com
5	SAINT GOBAIN INDIA PVT LTD	PLOT No 36, GIAC JHAGADIA BHARUCH - 393110
7	EVONIK SPECIALTY SILICA INDIA PVT. LTD	PLOT No-754, GIDC JHAGADIA DIST - BHARUCH STATE - GUJARAT
8	KOHLER INDIA PVT. LTD.	PLOT NO. 828, GIDC MEGA JHAGADIA-393110, DIST BHARUCH
9	Pepsi Co India Holding prf Ltd., Jhagadia.	plot NO. 97, GIDC Jhagadia, Dist. Bharuch state - Gujarat
10	AARTI INDUSTRIES LTD	PLOT No. 758-1/2/3 & 758/2A- 3A-13, 4A-13, 5A-13, 6/7 & 77 GIDC MEGA ESTATE JHAGADIA-393110, DIST BHARUCH

# MUTUAL AID AGREEMENTS

AS PER GUIDELINES OF FACTORIES ACT AND DIRECTOR OF INDUSTRIAL SAFETY AND HEALTH, WE SIGNATORIES OF THIS LETTER AGREE TO EXTEND MUTUAL HELP TO EACH OTHER AMONG THE GROUP AT THE TIME OF EMERGENCY ARISING DUE TO FIRE, GAS LEAK, EXPLOSION AND NATURAL CALAMITIES.

WE AGREE TO PROVIDE EQUIPMENT AND MANPOWER FOR CONTROLLING FIRE AND GAS LEAK AND ALSO TO SPARE RESOURCES FOR FIRST AID, RESCUE TRANSPORT, EVACUATION, COMMUNICATION AND SHELTER. THE COST OF CONSUMABLE WILL BE PAID BY AID DEMANDING INDUSTRY AS PER ACTUAL.

WE ALSO AGREE TO REVIEW AND UPDATE INFORMATION RELATED TO EMERGENCY PREPAREDNESS IN ANNEXURE -A ON A QUATERLY BASIS.

FOR UPL-5

*Ding*  
Mr. Subhat Kumar Jhagadia  
Unit Head



FOR DCM SHRIRAM LTD

*K. R. Vaidya*  
Mr. K R Vaidya  
Sr. VP & Head of Unit



FOR LANXESS INDIA P. LTD

*V. K. Talekar*  
(D.G. Datta Prasad Talekar)  
FOR SAINT GOBIN



FOR VARDHMAN ACRYLICS LTD

*Arun Bhandari*  
Unit Head



FOR SAINT GOBIN

*S. Selvakumar*  
(S. SELVAKUMAR)  
PLANT HEAD



FOR EVONIK SPECIALTY SILICA INDIA PVT. LTD

*Santosh*  
FOR AARTI INDUSTRIES LTD



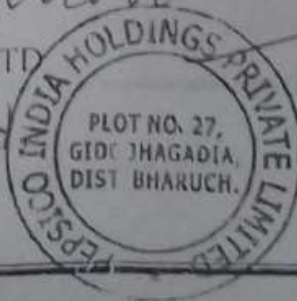
FOR KOHLER INDIA P. LTD

*Vipinkumar*



FOR PEPSICO HOLDING INDIA PVT. LTD

*M. C. S. Guruprasad*  
Unit Head



*Sandip Chakraborty*





**PUBLIC LIABILITY ACT POLICY  
POLICY SCHEDULE**

Agent/Broker Name -PRUDENT INSURANCE BROKERS PVT. LTD.

Agent/Broker License Code - 291:Agent/Broker :Contact No - 2233066000 (mobile or landline)

**Attaching to and forming part of Policy No.** 0304011371 00 00  
**Name of Insured Owner:** AARTI INDUSTRIES LIMITED  
**Business:** CHEMICAL MANUFACTURING

**Address:** 71, UDYOG KSHETRA, 2ND FLR. MULUND-GOREGAON, LINK ROAD,  
 MULUND (W), MUMBAI  
 MUMBAI - 400080  
 MUMBAI  
 MAHARASHTRA  
 INDIA  
 27AABCA2787L1ZC(GSTIN Number)  
 Place of supply -MAHARASHTRA  
 State code -27

**Territorial limits:** Anywhere in India

**Policy Period: From:** 09/01/2024 12:00 AM/ PM  
**To Midnight of:** 08/01/2025 12:00 AM/ PM

Indemnity limit:Rs 50,000,000.00 in respect of any one accident and not exceeding 3 times thereof in the aggregate during the policy period.

Service Tax Registration No:

Premium	₹ 10,135.94
UGST/SGST @9 %	₹ 912.00
CGST @9 %	₹ 912.00

**Contribution to the  
Environment Relief Fund:₹ 10,135.94**

**Date of Proposal and declaration:09/01/2024**

In witness whereof the undersigned being duly authorized by the company and on behalf of the company has hereto set his hand at MUMBAI on 18/01/2024

The stamp duty of 0.5 paid in cash or demand draft or by pay order,vide Receipt/Challan no: LOA/CSD/01/2023/4269 dated the 25/10/2023

**For Tata AIG General Insurance Company Limited**

**Authorized Signatory**

Date :18/01/2024  
Place :MUMBAI

**Policy Servicing Office  
Tata AIG General Insurance Company Limited**

2ND FLOOR, CITI TOWER, 61, DR. S.S.RAO ROAD,, NEXT TO M.G.M HOSPITAL, PAREL(E), MUMBAI - 400012,MUMBAI,MAHARASHTRA,MUMBAI-400012  
Tel No:22-22-62606600



# Tata-AIG General Insurance Company Limited



Attached and Forming Part of the Policy Number:- 0304011371 00 00

Location	Location Address
Alchemie Organics	PLOT NO. 902 923 PHASE-III, G.I.D.C, VAPI, DIST VALSAD, VAPI 396195
AMINE	285,286/1 A 322 12 23 24 NA 40SHED AREA GIDC PHASE II DIST-VALSAD, VAPI 396195
APPLE ORGANICS	PLOT NO. 610 , 609 & C1B/70, REVENUE SURVEY NO 234/P ,100,SHED AREA, GIDC , VAPI, VALSAD 396195
Baroda	Block number 1, 3rd floor, R S No 3, Keval Corporate Park, Village channi, Baroda-390002 BLOCK NO 5 R S NO 380 VILLAGE CHANNI KEVAL CORPORATE PARK BUILDING T P SCHEME NO 48 FP NO 43/1 OPP CHHANI GEB NEAR PRAKRUTI RESTAURANT BARODA - 391740 PARKWAY REALTY LLP
DAHEJ- NEO	PLOT NO.Z/103/C DAHEJ SEZ II, TAL VAGRA, DIST. BHARUCH, GUJARAT-392130
DAHEJ-DIAMOND	PLOT NO Z-103/H SEZ-II, DAHEJ, TAL- VAGRA, DIST - BHARUCH 392130,
DAHEJ-SAFRON	PLOT NO - Z 111 B, DAHEJ, SEZ-II,TAL VAGRA, DIST. BHARUCH-392130
NASCENT	PLOT NO. 24, PHASE-I, G.I.D.C., DIST. VALSAD, VAPI 396195
R & D MHAPE/Turbe	PLOT NO A-94/1 MIDC , TTC IND AREA,NAVI MUMBAI - DIST THANE
ACID	PLOT NO. 801-23, TO 802,803,804/1-2-3, 15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
Nutrient	PLOT NO. 802,803,804/12-3, 801/15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
R & D VAPI - Organic	PLOT NO. 802,803,804/12-3, 801/15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
SSP Fertiliser	PLOT NO. 801/15, TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195
Vapi Unit - Organic	PLOT NO. 801-23, TO 802,803,804/1-2-3, 15 TO 19, 21 AND 22 PHASE-III, G.I.D.C. ,INDUSTRIAL ESTATE,VAPI 396195

3M (New Location)	PLOT NO 778 , 758/1-2-3 & 756/4-5, 779 AJANTA PAPER & GENERAL PROC,GIDC JHAGADIA - DIST BHARUCH 393110 PLOT NO 41-1 & 41-2. JHAGADIA GIDC ESTATE ANKLESHWAR, DIST BHARUCH 393110
Jaghadia (Pearl,Ruby, Jade,Gold)	Plot No. 756 - 8/9, 758/1,2,3 Survey no. 345, 348, 356, 357, 358, 359, 360 & 364 Plot No. 756-2A/B, 3A/B, 4A/B, 5A/B,6,7,8,9 & Survey No. 122 Plot no. 778, P.B No. 24, GIDC, Jhagadia-393110, Dist- Bharuch, Gujarat Plot No 41/3/1-2-3, Jhagadia, Dist- Bharuch, Gujarat
TARAPUR UNIT -2	Plot No. L-5,L-4, L-8,L-9/1, MIDC, Tarapur, Boisar.
Kutch	SURVEY NO. 1430/1, NATIONAL HIGHWAY NO. 8-A, KUTCH BHACHAU, GUJARAT 370140
Mulund	71 Udyog Kshetra 2nd Floor Mulund Goregaon Link Road, Mulund West, Mumbai 400080
Vikhroli	Tower C, 4th Floor, 247 Embassy Park, LBS Marg, Vikhroli (W), Mumbai- 400083



**For Tata AIG General Insurance Company Limited**

**Authorized Signatory**



**FORM NO. 33**  
(Prescribed under Rule 68-T and 102)

**Certificate of Fitness of employment in hazardous process and operations.**

(TO BE ISSUED BY FACTORY MEDICAL OFFICER)

- |   |   |                                  |
|---|---|----------------------------------|
| 1. Serial number in the register of adult workers | : | 57005352                         |
| 2. Name of the person examined                    | : | Fatemija Jafar                   |
| 3. Father's Name                                  | : | Mahishbhai Dewshibhai            |
| 4. Sex  | : | male                             |
| 5. Residence                                      | : | Bhabuch                          |
| 6. Date of birth, if available                    | : | 15/08/1995                       |
| 7. Name & address of the factory                  | : | Roorti Industries LTD, Jhugherda |
| 8. The worker is employed/proposed                | : |                                  |
| (a) Hazardous process                             | : |                                  |
| (b) Dangerous operation                           | : |                                  |

I certify that I have personally examined the above named person whose identification marks are...~~male~~...~~female~~...and who is desirous of being employed in above mentioned process/operation and that his/her, age, as can be ascertained from my examination, is 28 years.

In my opinion ~~he~~she is  fit for employment in the Said manufacturing process/operation.

In my opinion he/she is unfit for employment in the said manufacturing process/operation for the reason .....He/She is referred for further examination to the Certifying Surgeon.

The serial number of previous certificate is .....

Signature or left hand thumb impression of the person examined:

Signature of the Factory Medical Officer: *[Signature]*

Stamp of factory Medical Officer with

Name of the Factory : G-54854

I certify that I examined the person mentioned above on (date of Examination)	I extend this certificate unfit (if certificate is not extended, the period for which the worker is considered unfit for work is to be mentioned)	Signs and symptoms observed During examination	Signature of the Factory medical Officer with date.
01/01/2024			<i>[Signature]</i> 01/01/24

Notes :

1. If declared unfit, reference should be made immediately to the Certifying Surgeon.
2. Certifying Surgeon should communicate his findings to the occupier with 30 days of the receipt of this reference.]



03/10/2022

To,  
The Deputy Director,  
Industrial Safety & Health,  
2nd Floor, Multi Storied Building,  
Near New Court,  
Kanbi Vaga, Bharuch

Sub- Submission of documents as discussed.

Dear Sir,

With reference to the above subject we are hereby submitting the following documents,

1. Updated Onsite emergency plan for Hazardous Gas dispersion distance in tabular form (Annexure 10)
2. Work environment monitoring record (Form 37)
3. Medical examination records (For Benzene and Methanol handling area)
4. Training records (111A)
5. Compliance of DISH circulars
6. Safety Audit Compliance report

Requesting you to kindly acknowledge the same.

Thanking you,

Mr. Nitesh Yadav

(Factory Manager

AGM (Operations)

Aarti Industries Ltd.,


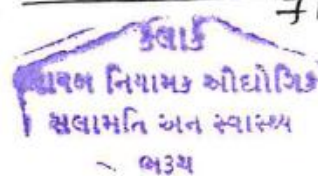
Plot No. 756/2/A/B, 756/3/A/B, 756/4/A/B

756/5/A/B, 756/5/A/B, 756/6, 756/7, 779

&Sr. No. 122

GIDC Jhagadia-393110,

Dist Bharuch, Gujarat (India)

  
7/10/2022  
  
કેલેક્ટ  
આવન નિયામક ઓદ્યોગિક  
સલામતિ અને સ્વાસ્થ્ય  
ભરૂચ

# ભરૂચ-નર્મદા ભાસ્કર

અંકલેશ્વર રાજપીપળા | જંબુસર | પાલેજ | ટેકિયાપાડા | ભેરંગ | આમોટ | કેવડિયા | દહેજ | કાંતોટ | વાગરા | ડાહડિયા

સંપૂર્ણ સ્વાયત્ત સમ્બંધ

દિવ્ય ભાસ્કર

ભરૂચ, મંગળવાર, 7 જૂન, 2022

વેલ્યુ-7 સ્ક્રિપ્સ સંવત 2078

divyabhaskar.com

**ધોરણ 10માં ઓછા માર્ક્સ આવીયા હોય તો નાસીપાસ ના થશો**, પરિશ્રમ અને ધગશથી સિદ્ધિ મળે જ છે

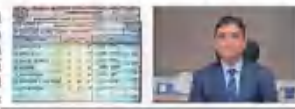
## અંગ્રેજી -35, ગણિત -36 અને વિજ્ઞાન -38 આ છે ભરૂચ કલેક્ટર ડૉ. સુમેરાની ધો.10ની માર્ક્સીટ

વરુણભાઈ શ્યામ  
ભરૂચના સમગ્ર શાળાઓ અને ઉચ્ચશિક્ષણ વિભાગમાં પોતાના વ્યવસાયમાં ધોરણ 10ની માર્ક્સીટ પરિશ્રમ અને ધગશથી મેળવવાની જરૂર છે. ડેરેક્ટર શિક્ષણ વિભાગ ડૉ. સુમેરાની આજે પોતાના અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી.

ડેરેક્ટરના પોતાના અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી. ડેરેક્ટરના પોતાના અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી.

વિદ્યાર્થીઓના પોતાના અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી. ડેરેક્ટરના પોતાના અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી.

અને વિજ્ઞાન 38 માર્ક્સ મેળવી હતી. પરિશ્રમથી મેળવી શકાય તેવા અધિકારીઓ સાથે મળીને આ અંગેની ચર્ચા કરી હતી.



**ગોડાઉનમાં સંગ્રહ કરેલો ભંગાર બચીને ખાખ પાનોલીના ગુરુકુપા ઇન્સ્ટિટ્યુટ પાર્કમાં ભંગારના ગોડાઉનમાં આગ**



ભરૂચ જિલ્લાના પાનોલીમાં ગોડાઉનમાં સંગ્રહ કરેલો ભંગાર બચીને ખાખ પાનોલીના ગુરુકુપા ઇન્સ્ટિટ્યુટ પાર્કમાં ભંગારના ગોડાઉનમાં આગ લાગી હતી. આ અંગેની તપાસ ચાલુ છે.

**M.K. INSTITUTE OF COMPUTER STUDIES**  
A Leading BCA College, with Glorious 21 years, since 2001  
**ADMISSIONS OPEN 2022-23**  
**GRADUATE COURSE BCA**  
Eligibility: 12<sup>th</sup> Commerce / Arts / Science  
100% Placement | 100+ Computer Lab | Hostel Facility  
SVKM's College Campus, Dh6 N.H.No.8, Bhavnagar - 382007  
7799 102442, 2258623, 94127 24282, 98294 82886, 93989 17860  
Contact College Help Center to Fill Admission Form

**પુરોહિત જમણા હાઉસ**  
જમણા વેચાણ માટે કાર્ટન્ટર ઉપર સેલ્સ ગર્લ ની જરૂર છે.  
સંપર્ક કરો : 93775 10978

**અંકલેશ્વર એન્વાયરમેન્ટલ પ્રિવેનશન સોસાયટી**  
સામાજિક અને ઇકોલોજીકલ સુધારા કરવા માટેની સેવાઓ પ્રદાન કરવામાં આવી રહી છે. આ અંગેની વિગતો માટે સંપર્ક કરો.

**મેસર્સ સારતી ઇન્ડસ્ટ્રી પ્રોપર્ટીસ (સુવિન-૨)**  
પોર્ટલેન્ડ સિમેન્ટ, ગ્રાઉન્ડ, સેલ્સ, ઇન્જીનિયરિંગ સેવાઓ પ્રદાન કરવામાં આવી રહી છે. આ અંગેની વિગતો માટે સંપર્ક કરો.

**Shri Manlal Kadakia College of Commerce, Management, Science and Computer Studies**  
EMPLOYMENT NOTICE  
1. Principal/Principal 25  
2. Assistant Professor 15  
3. Assistant Professor 15  
4. Assistant Professor 15  
5. Assistant Professor 15  
6. Assistant Professor 15  
7. Assistant Professor 15  
8. Lab Assistant 15

**અગસ્તિ ભારતવર્ષ** | **PLAY SCHOOL TO STD. 12** | **LEADERSHIP TEAM**  
RAJAN BHARAT, DHAVAL BHARAT, KETAN BHARAT

**STD. - 10<sup>th</sup>** | **મહેનત બોલે છે.** | **100% RESULTS** | **STD. - 10<sup>th</sup> & STD. - 12<sup>th</sup> SCIENCE / COMMERCE**

**સમગ્ર ગુજરાતમાં નંબર 3** | **સમગ્ર ગુજરાતમાં અગ્રેસર**

**ADMISSION OPEN** | **BOARD | JEE | NEET | GUJCET**  
In association with **MOTION** (NOTA, RAJASTHAN)

**ધો. 11 સાયન્સ/કોમર્સ નવા બેચની શરૂઆત તા. ૯-૬-૨૦૨૨, ગુડવારથી**

Divya Road, Ankleshwar City. | 89809 09060 | Jaldhara Chowkdi, Ankleshwar G.I.D.C. | 89809 80008



# Centre tells HC it owns Mumbai land picked for Metro car shed

### 100-Acre Of Land In Kanjurmarg Is Being Claimed By Both Centre & Maha

Mumbai: The Centre on Monday submitted an affidavit to the Bombay High Court, asserting its ownership of 100-acre land in Kanjurmarg, where the Maharashtra government had proposed to construct a Metro car shed, and claimed that a dispute over the ownership of the land was not resolved by the Maharashtra government but proposed to construct a car shed for the Metro project at about 100-acre of the land.



An aerial view of the land proposed for Metro car shed in Kanjurmarg.

The Centre and the Maharashtra government are locked in a dispute over the ownership of the said land. The state government had earlier filed a suit in the Bombay High Court to declare its ownership of the land. In March this year, the Maharashtra government filed a counter affidavit to the Centre's affidavit, claiming that the land was in its possession. The Centre's affidavit also claimed that the land was in its possession. The Centre's affidavit also claimed that the land was in its possession.

The Centre's affidavit also claimed that the land was in its possession. The Centre's affidavit also claimed that the land was in its possession. The Centre's affidavit also claimed that the land was in its possession. The Centre's affidavit also claimed that the land was in its possession.

More over 1,000 acres of the disputed land belonged to it and the private firm did not have any right on it, adding the matter was "fundamentally" established by the private firm. The firm deliberately did not make the Maharashtra government a party to the suit. The state government had obtained an HC order on its suit filed in 2009 against a few persons. The Centre had sought specific performance in connection with an agreement of August 2008, as per which, the firm claimed, that it was granted development rights of the entire Kanjurmarg. As per advocate Hemant Takkar, representing the Maharashtra government, the high court was not intended that out of the 100-acre land, some 100-acre belonged to the state government, nearly 100-acre to the Centre and about 600-acre of land were in possession of the Maharashtra Municipal Corporation.

# There is no national party except BJP: Nadda

Vijayprakash BJP president of UP Nadda on Monday claimed that there is no national party except BJP. He said that BJP is the only party that has a national reach and is the only party that has a national reach.



A farmer picks cherries from a tree in an orchard in Tawang area of Arunachal Pradesh. The cherry harvesting is a major source of employment as all the work needs to be done by hand only. The state has seen bumper cherry crop this year.

Addressing a group of students in Lucknow, Nadda said that BJP is the only party that has a national reach and is the only party that has a national reach.

Addressing a group of students in Lucknow, Nadda said that BJP is the only party that has a national reach and is the only party that has a national reach.

# Karti's anticipatory bail plea adjourned

New Delhi: The Delhi High Court on Monday adjourned the hearing on the anticipatory bail plea of Karti Chaudhary on the basis of the request of the Enforcement Directorate (ED) and Karti's lawyer.

# EAM wraps up visit to Slovakia, Czech Republic

New Delhi: External Affairs Minister Dr. S. Jaishankar on Monday wrapped up his two-day visit to Slovakia and the Czech Republic. He held several high-level meetings and discussions with his counterparts in both the countries.

# Horrifying accident images of Yamunotri-bound pilgrims hard to forget for locals in Uttarakhand

Dehradun: Families with young limbs scattered over the bushes after their own hanging from trees and the mangled remains of their beloved ones are the horrifying images of the accident at Yamunotri that locals in Uttarakhand will never forget.



On Monday, Uttarakhand's Minister Singh Dhoti with Madhya Pradesh's Chief Minister Nara Chandrababu Naidu visited the site of an accident in Yamunotri, a day after the accident.

The residents involved in the accident were shocked and horrified. They were unable to believe what had happened. The accident was a tragedy for everyone involved.

The residents involved in the accident were shocked and horrified. They were unable to believe what had happened. The accident was a tragedy for everyone involved.

# SC to hear plea for stray round of NEET counselling

New Delhi: The Supreme Court on Monday agreed to consider a plea by medical students seeking a special stay round of counselling in NEET. The petitioners sought a special stay round of counselling in NEET.

# Ahead of RS polls, BJP sends its Rajasthan MLAs to resort



BJP MLAs being jammed ahead of the Rajya Sabha elections in Jaipur on Monday.

Delhi: The BJP on Monday shifted most of its Rajasthan MLAs to a resort for a "strategy camp" ahead of the Rajya Sabha elections on June 10, days after a similar move by the state's ruling Congress.

The petitioners sought a special stay round of counselling in NEET. The petitioners sought a special stay round of counselling in NEET.

The Congress has already moved many of its MLAs to a resort in Jaipur. The Congress has already moved many of its MLAs to a resort in Jaipur.

Malik seeks bail to cast vote in RS polls. Malik seeks bail to cast vote in RS polls. Malik seeks bail to cast vote in RS polls.

# ED conducts raids against Delhi minister Satyendra Jain

New Delhi: The Enforcement Directorate on Monday conducted raids against Delhi minister Satyendra Jain as part of a money-laundering probe.

# Lalu Yadav asks court to release his passport



Recent Bihar Chief Minister Lalu Prasad Yadav.

Lalu Prasad Yadav has asked the court to release his passport. He has asked the court to release his passport.

The raids were conducted as part of a money-laundering probe. The raids were conducted as part of a money-laundering probe.

The court has granted bail to the minister. The court has granted bail to the minister.

The court has granted bail to the minister. The court has granted bail to the minister.

# Bihar CM questions UPA's 2011 socio-economic & caste census

Patna: Bihar Chief Minister Nitish Kumar on Monday questioned the Union government's 2011 socio-economic and caste census.

Nitish said that the census report was never published or came into the public domain, and thus no one knows how it was drafted and what was its content.

# Pro-Khalistan slogans raised at Golden Temple

Amritsar: Pro-Khalistan slogans were raised at the Golden Temple on Monday. The slogans were raised at the Golden Temple.

# Two killed as car rams into lorry

In the two persons were killed when their car rams into a lorry that was parked by the roadside. The incident occurred in the early hours of Monday.

# Change of Name

M/s. Aarti Industries Limited (Unit B) Plot no. 7502A & 2B, 7502A & 2B, 7504A & 4B, 7505A & 5B, 7506, 7507, 7508A, 719 & 773, GIDC Nandri Industrial Estate, Rajapur-382110, Dist: Bharuch, Gujarat.



10<sup>th</sup> November 2023  
AIL/JH/2023/ENV/108

To,  
Deputy Director General of Forests (C)  
Ministry of Environment Forest and Climate Change,  
Integrated Regional Office - Gandhinagar,  
A Wing - 407 & 409, Aranya Bhawan,  
Near CH-3 Circle, Sector - 10A, Gandhinagar - 382010

**Subject: Half-yearly Environmental Clearance Compliance Report for period of April'23 to September'23**

**Reference: SEIAA/GUJ/EC/5(f)/1470/2022, dated: 30/05/2022**

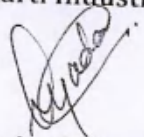
Respected Sir,

With reference to the above mentioned subject, the unit is enclosing herewith the Environmental Clearance compliance report for the period of April'23 to September'23 for the above mentioned reference of Environment Clearance obtained for the "Production of Synthetic Organic Chemicals" at Plot No. 756/2 A&B, 756/3 A&B, 756/4 A&B, 756/5 A&B, 756/6, 756/7, 756/8+9, 778 & 779, GIDC Notified Industrial Estate Jhagadia, District: Bharuch, Gujarat.

The compliance report is supported with required documents.

Thanking you,

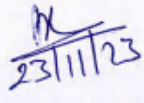
Yours faithfully,  
For, Aarti Industries Limited (Unit-II)

  
Authorized Signatory

Encl : EC Compliance Report along with Annexures

Copy to:

1. **Email to:** The Regional Director, CPCB, Vadodara, Gujarat
2. **Email to:** SEIAA, Gujarat
3.  The Member Secretary, Gujarat Pollution Control Board, Gandhinagar
4. **Uploaded in Parivesh, MoEF&CC Portal**

  
Gujarat Pollution Control Board  
Head Office  
Sector No.-10-A,  
Gandhinagar-382010

www.aarti-industries.com | CIN: L24110GJ1984PLC007301

Regd. Office : Plot No. 801, 801/23, IIIrd Phase, GIDC Vapi-396195, Dist- Valsad. INDIA. T : 0260-2400366.

Factory : Plot No. - 756/4-5-6-7 & 779, GIDC Jhagadia - 393 110, Dist - Bharuch, Gujarat (India).

Phone No. : 9537011611, 9537011711, 9537011811

Admin. Office : 71, Udyog Kshetra, 2nd Floor, Mulund Goregaon Link Road, Mulund (W), Mumbai - 400080, INDIA.  
T : 022-67976666. F : 022-2565 3234 | E : info@aarti-industries.com